

APPARATUS AND METHOD FOR CATHETER GUIDANCE CONTROL  
AND IMAGING

Yehoshua Shachar

Appl. No.: Unknown Atty Docket: EMAG.003A

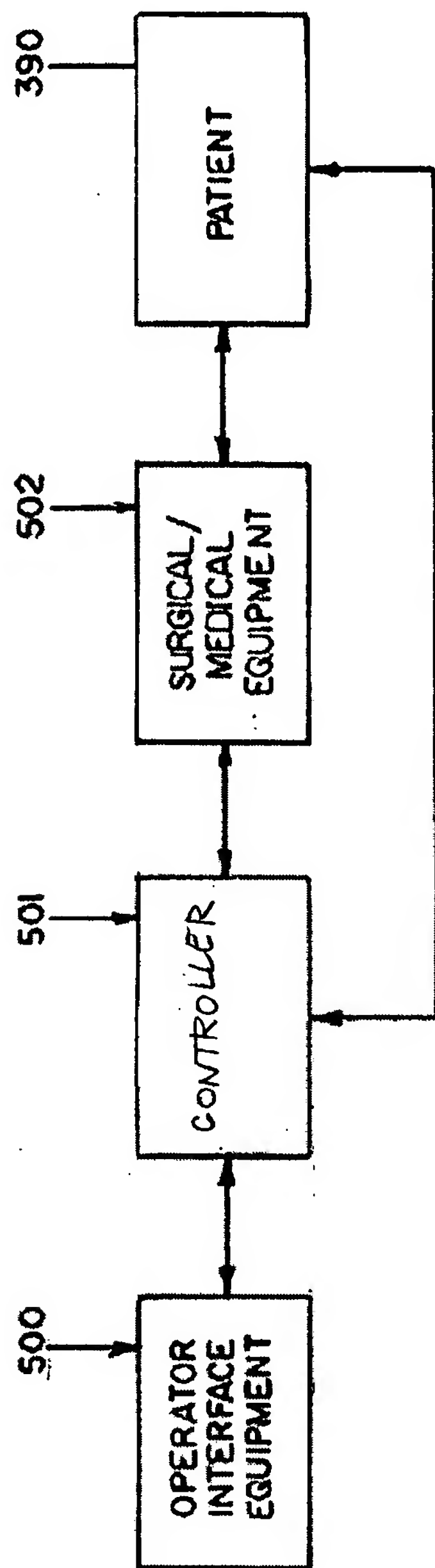


FIG. 1A

APPARATUS AND METHOD FOR CATHETER GUIDANCE CONTROL  
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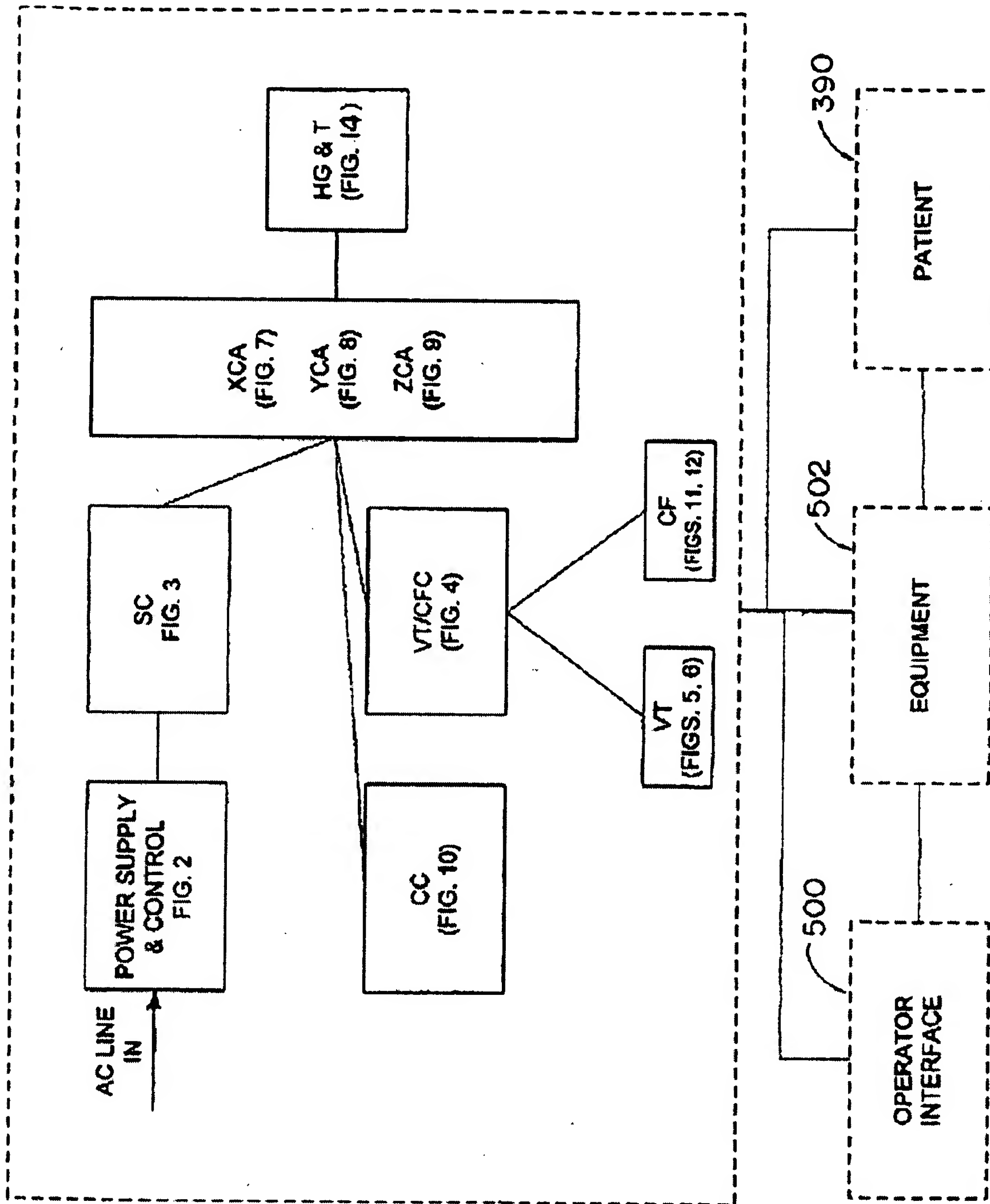


FIG. 1B

374

392

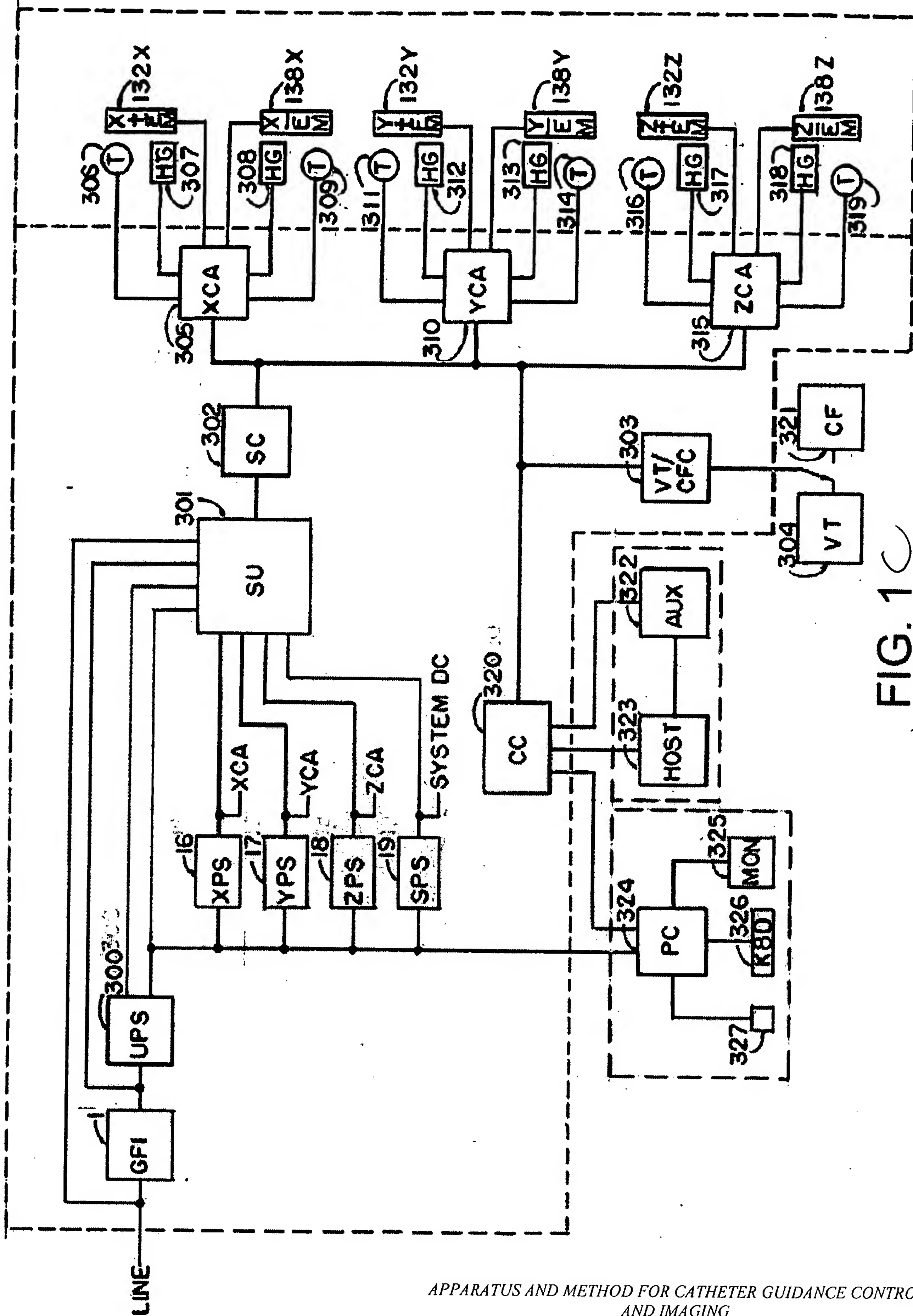


FIG. 1

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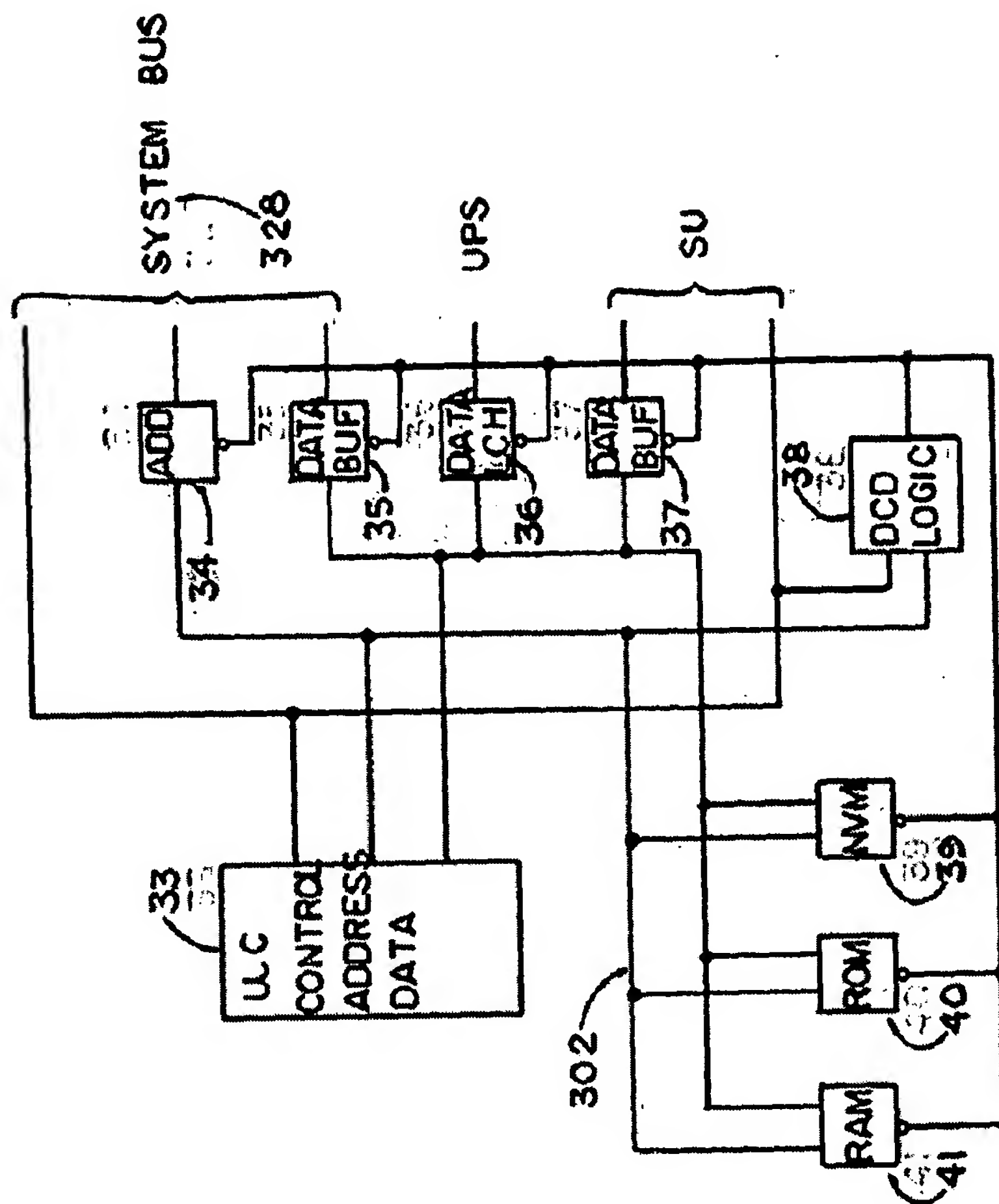


FIG. 3

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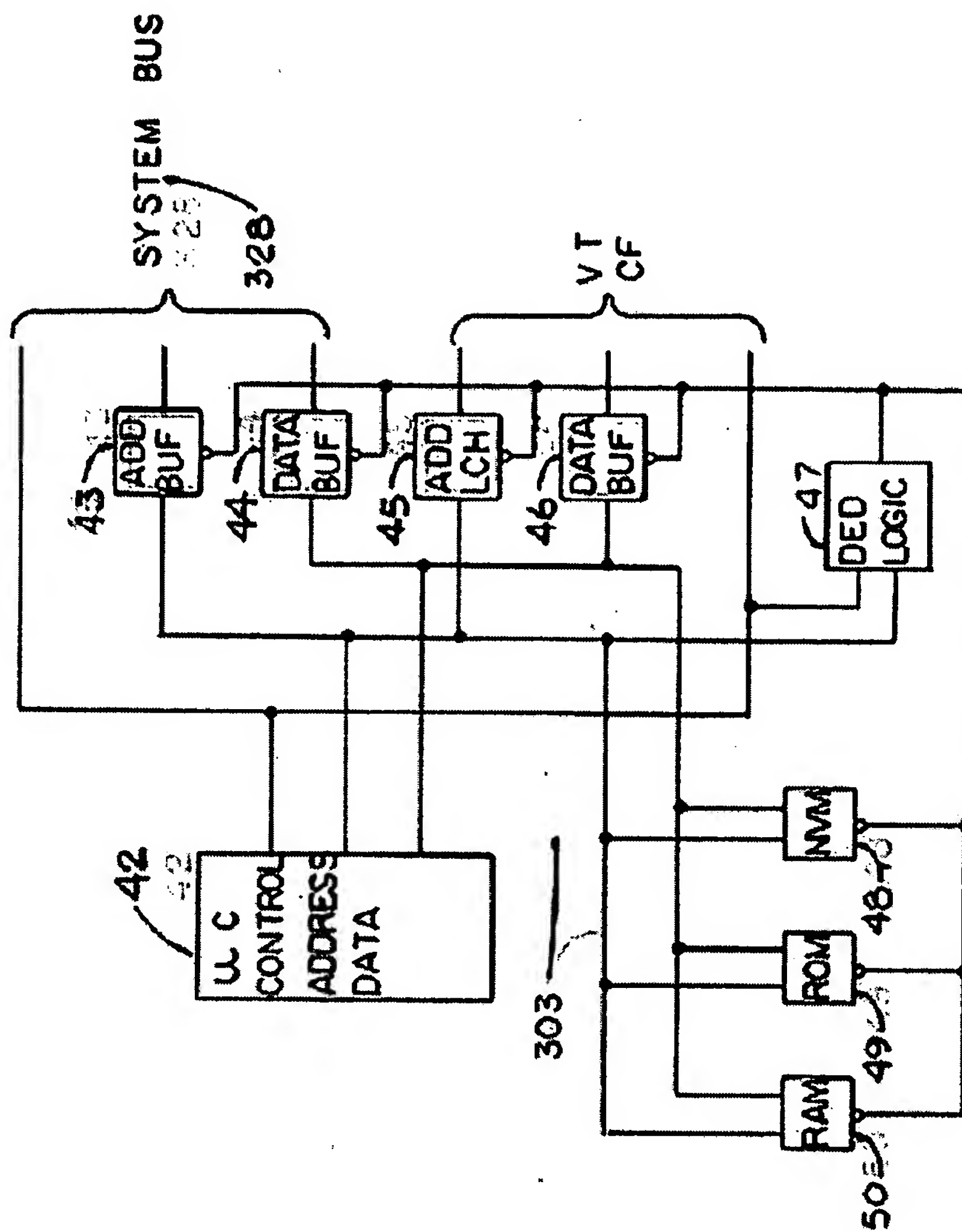


FIG. 4

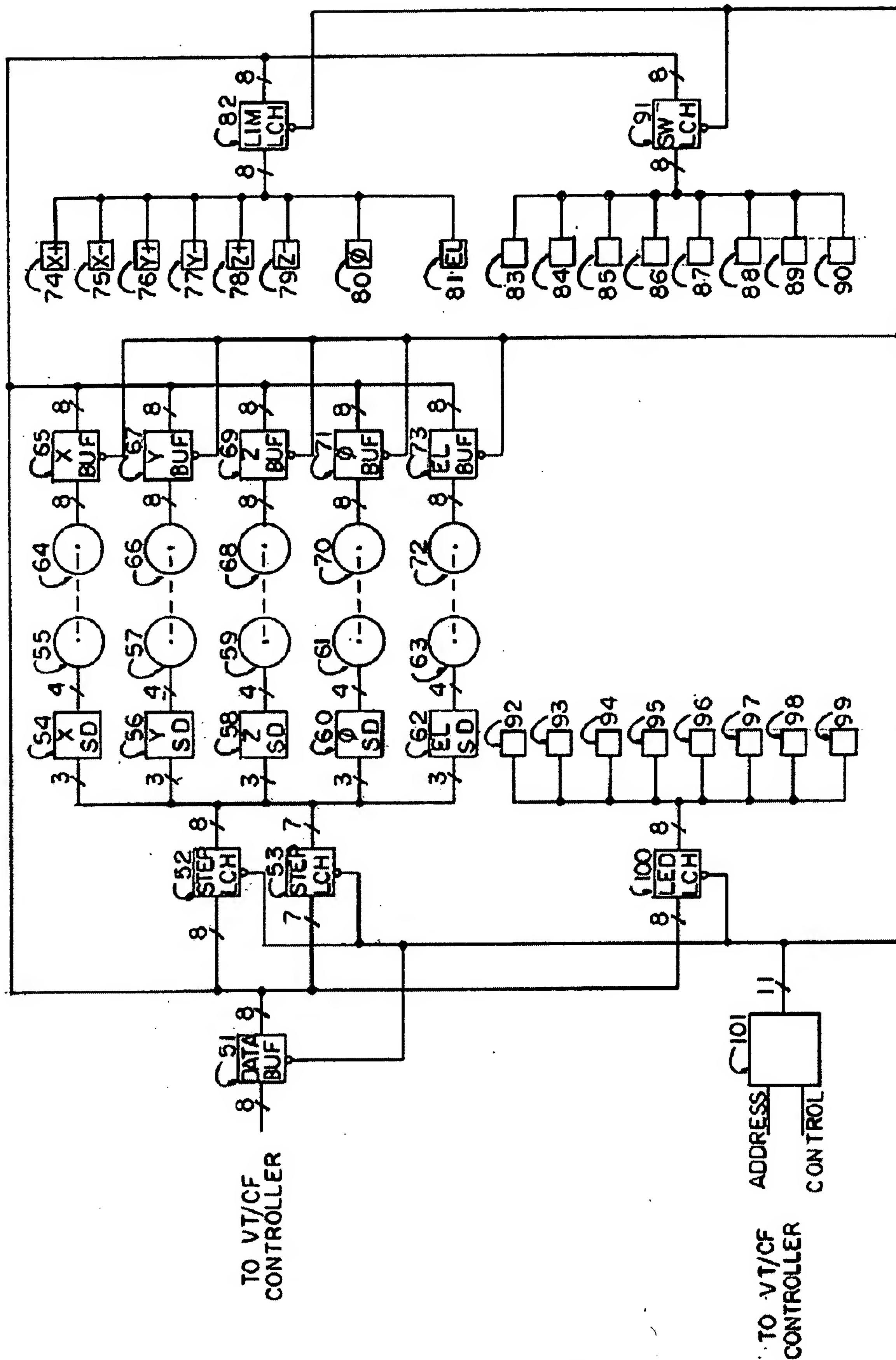


FIG. 5

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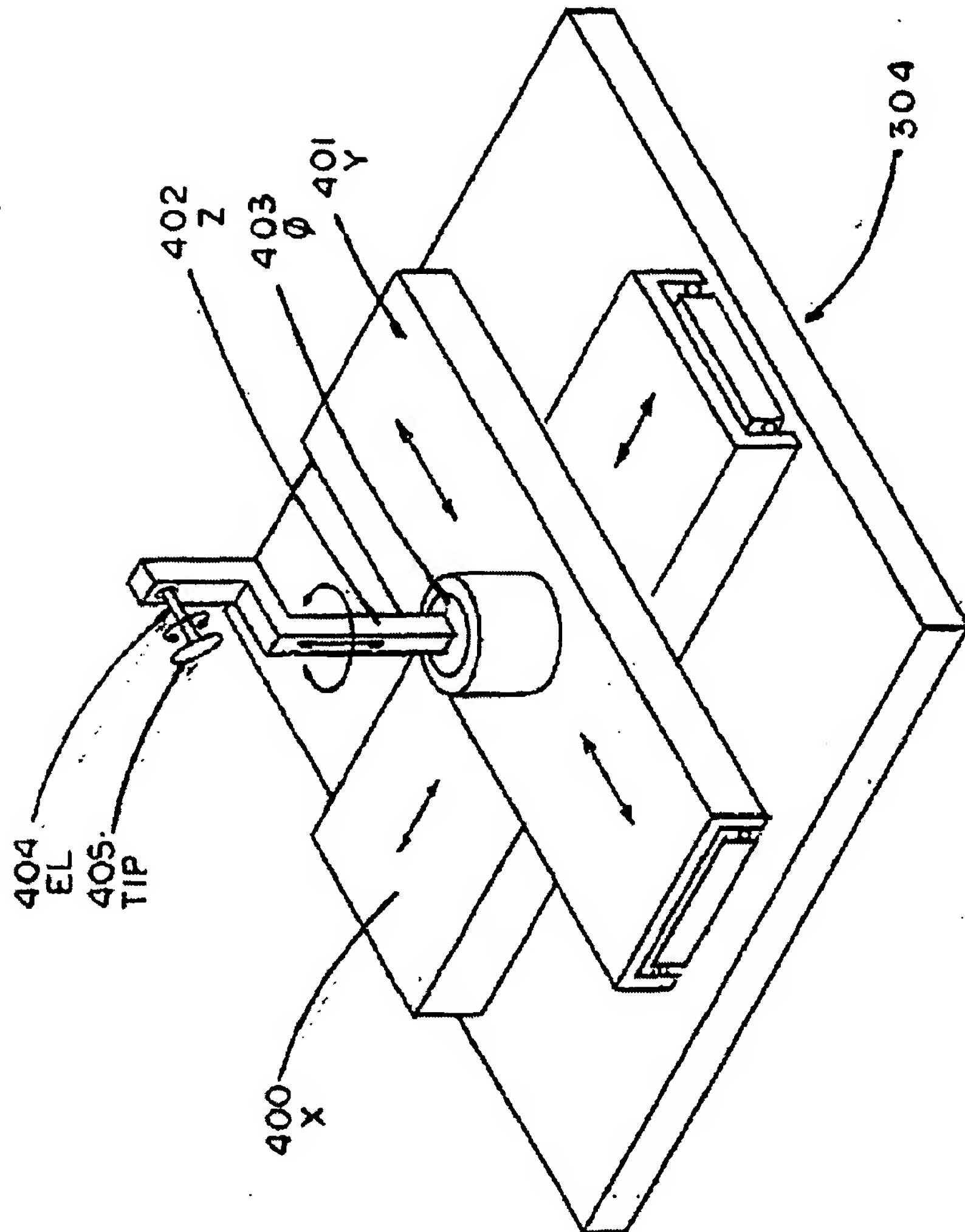


FIG. 6









96F

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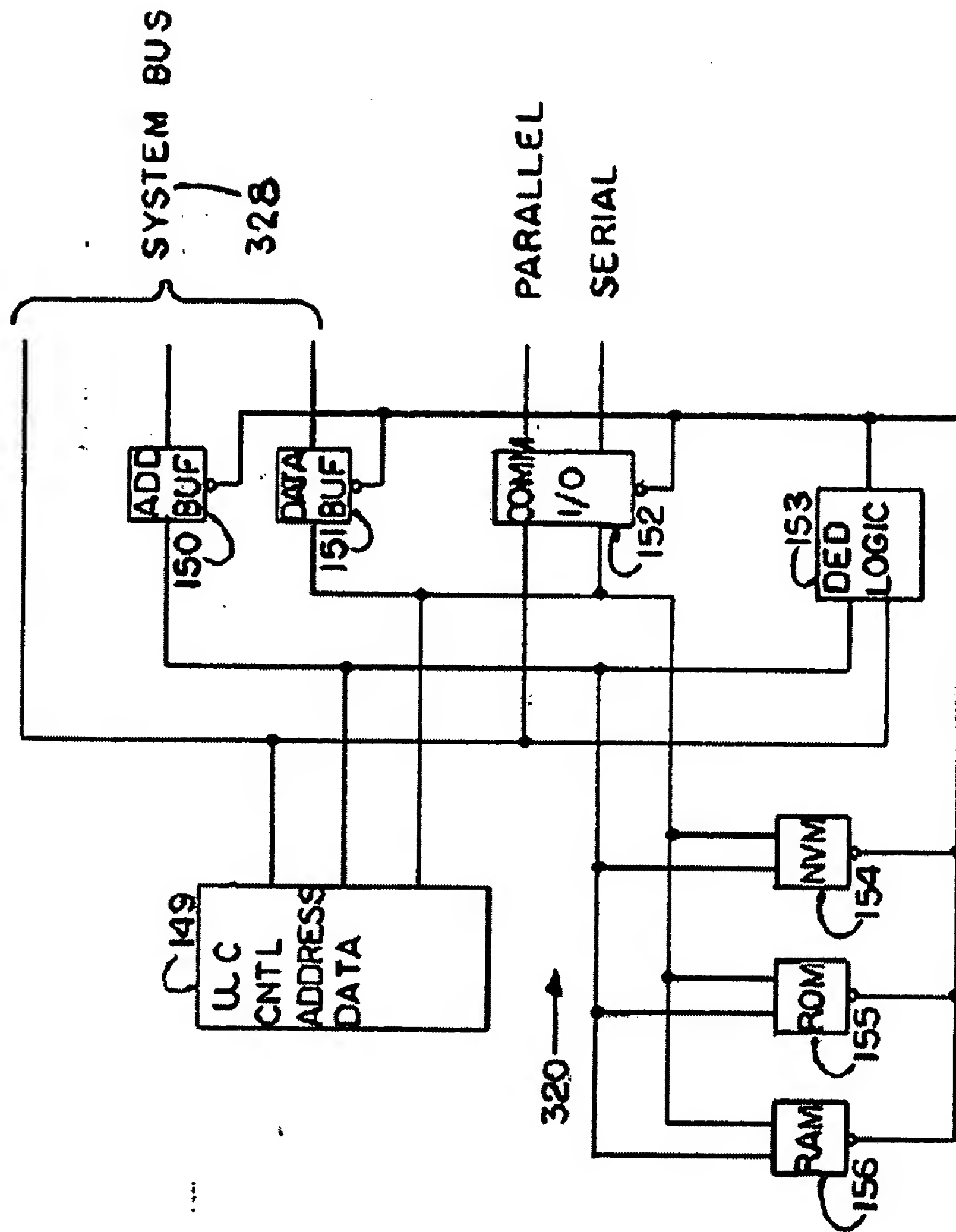


FIG. 10

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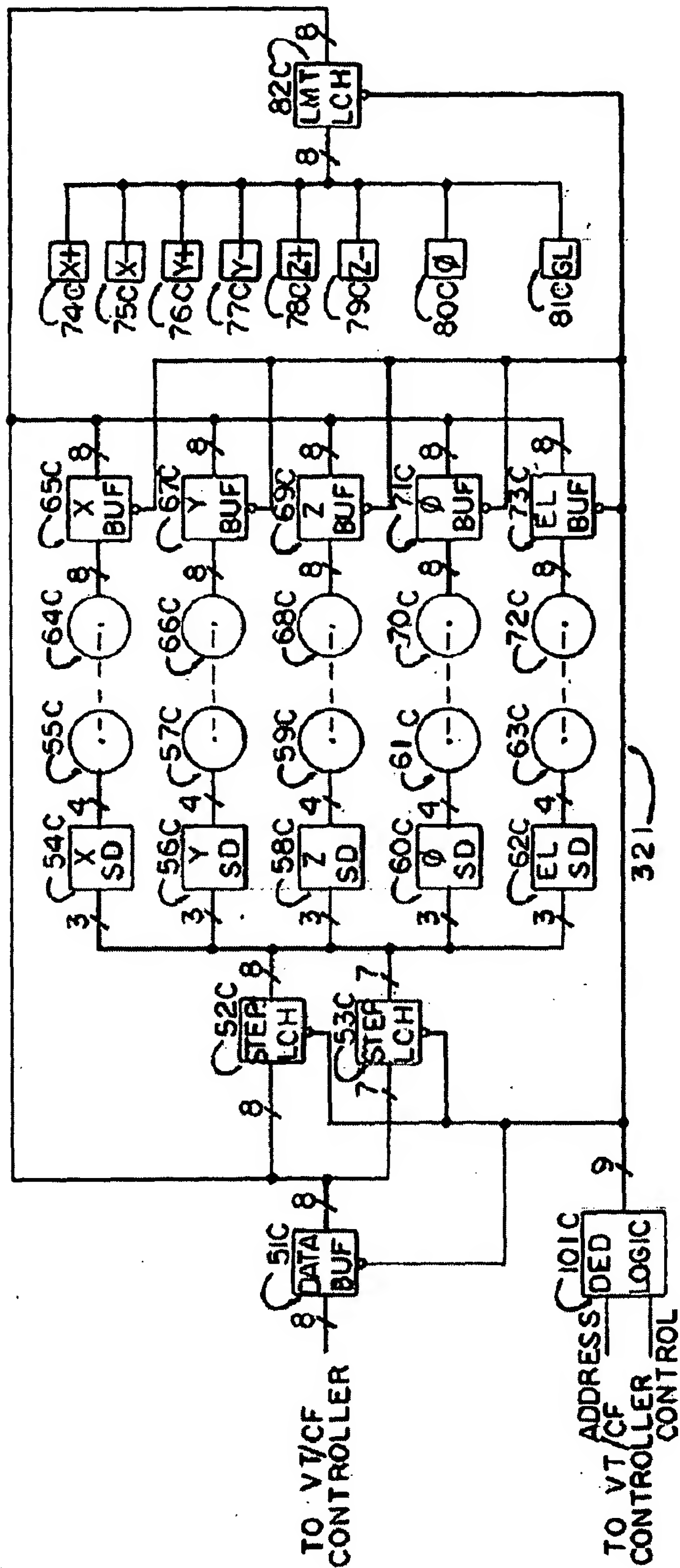


FIG. 11

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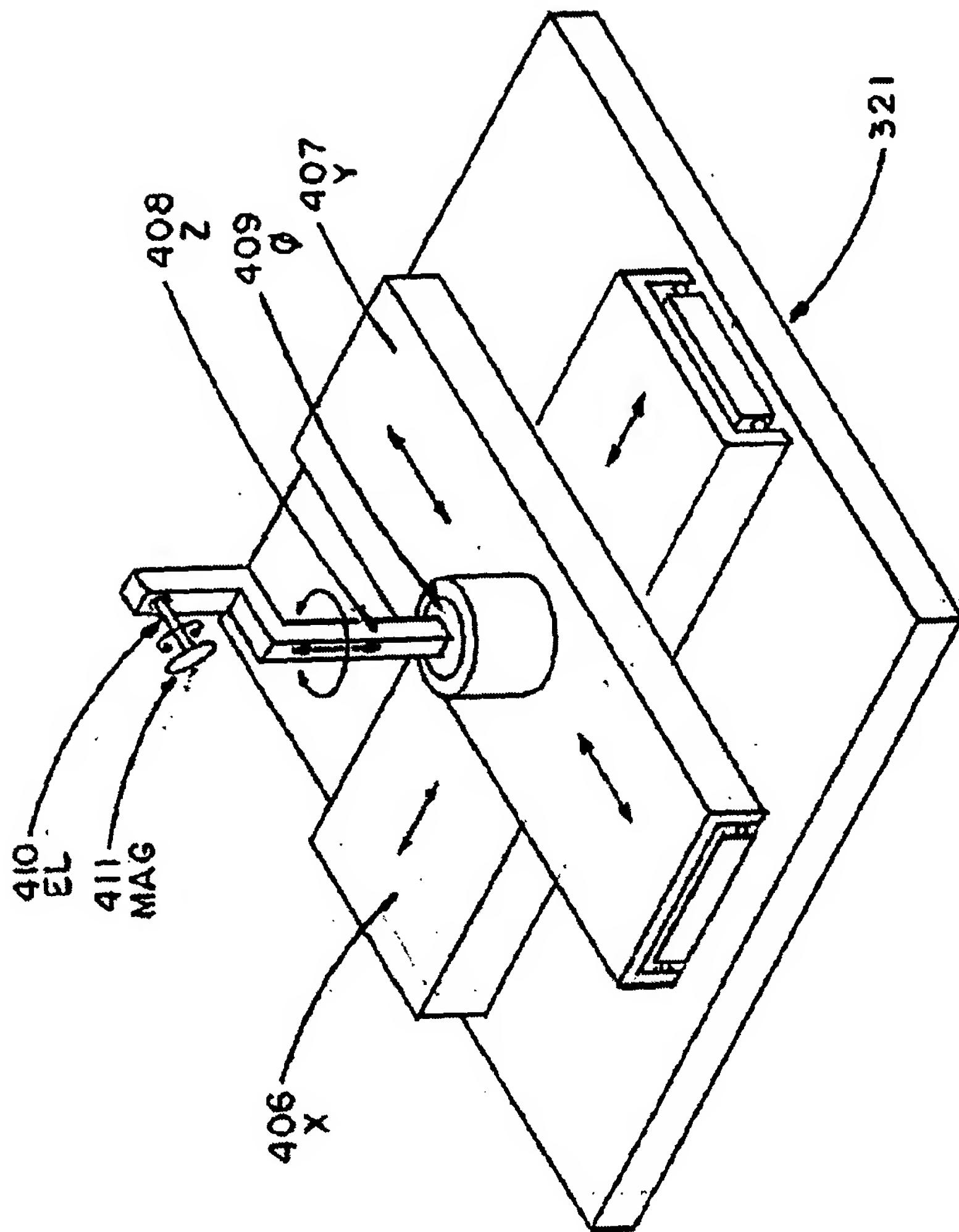


FIG. 12

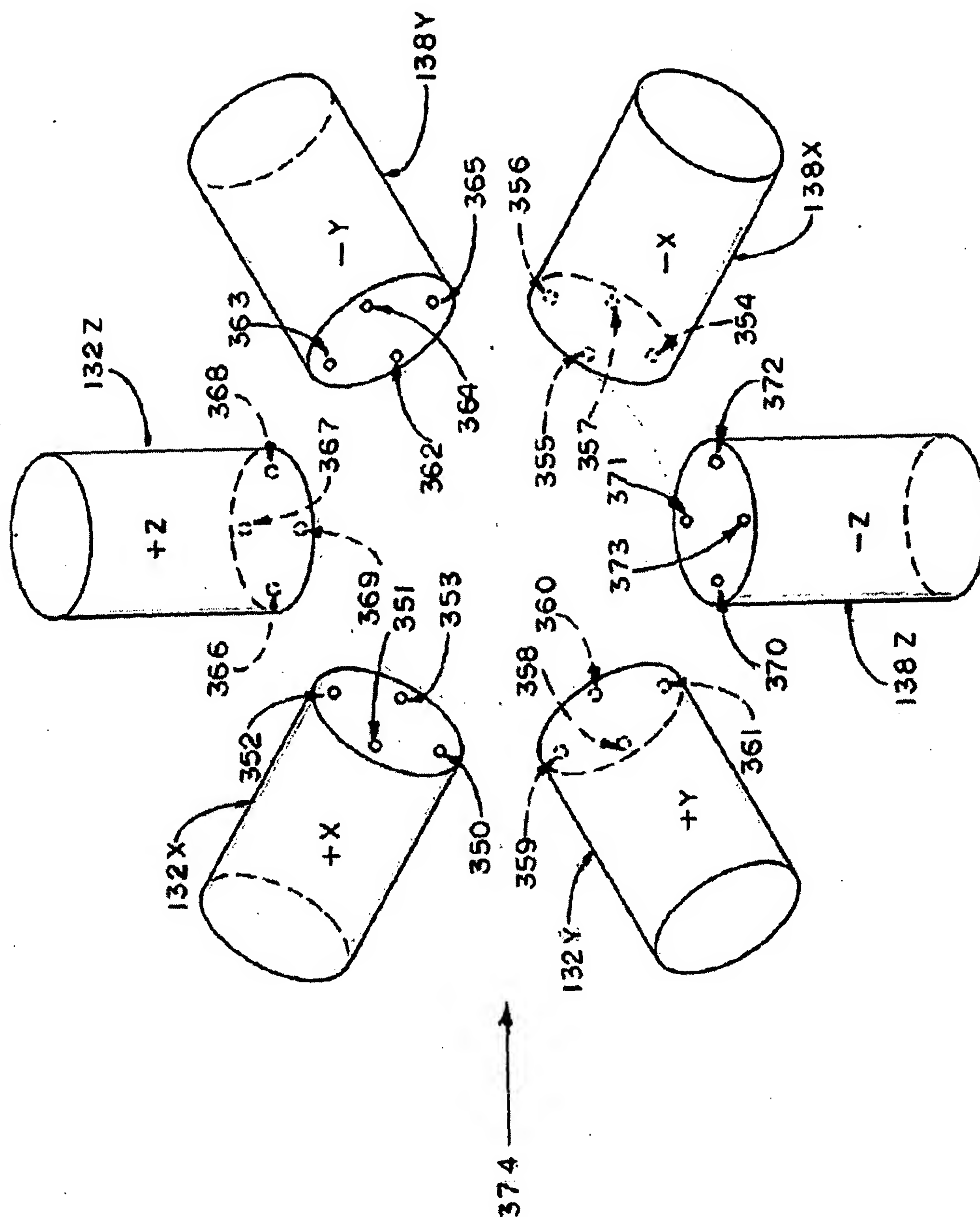


FIG. 13



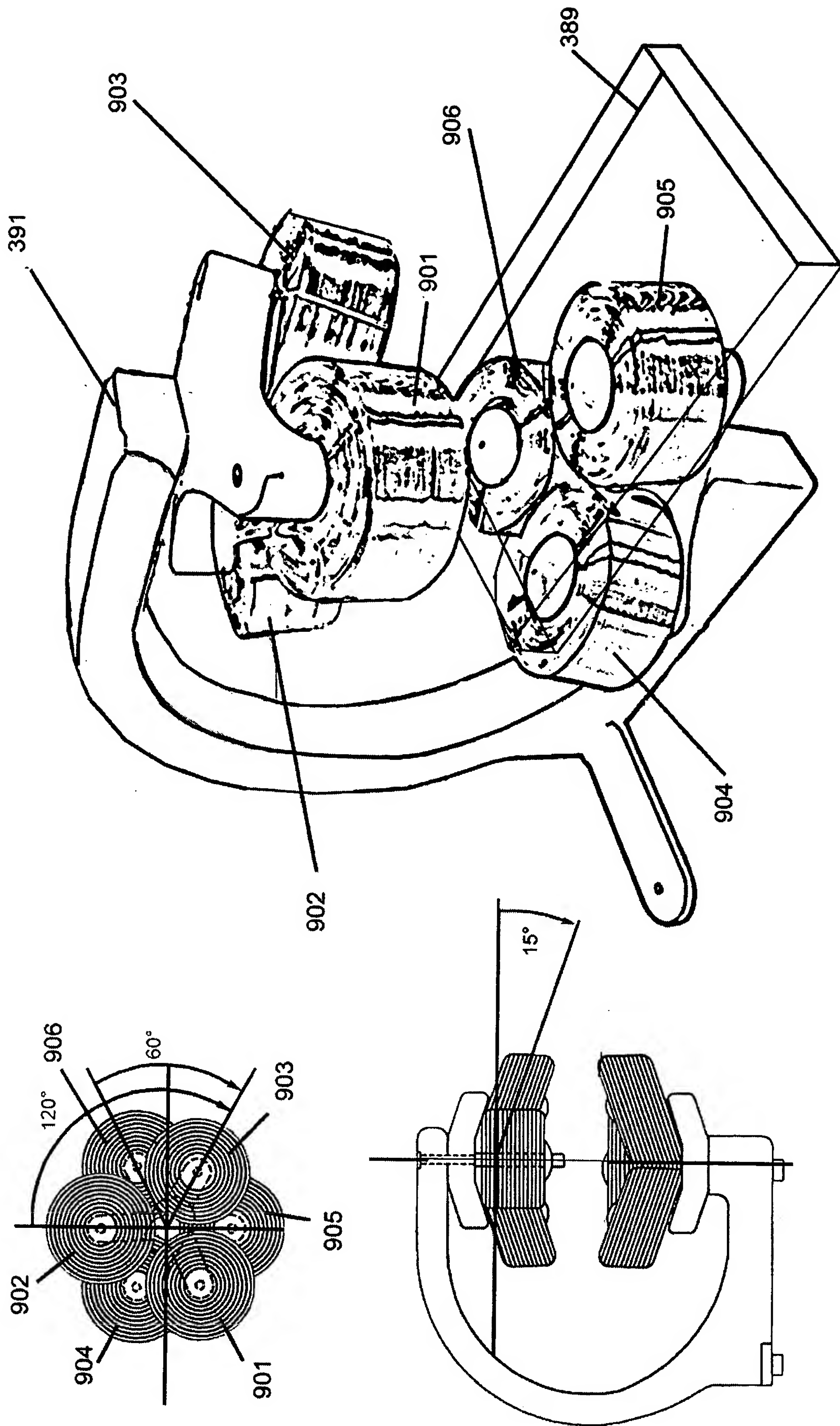


FIG. 13A

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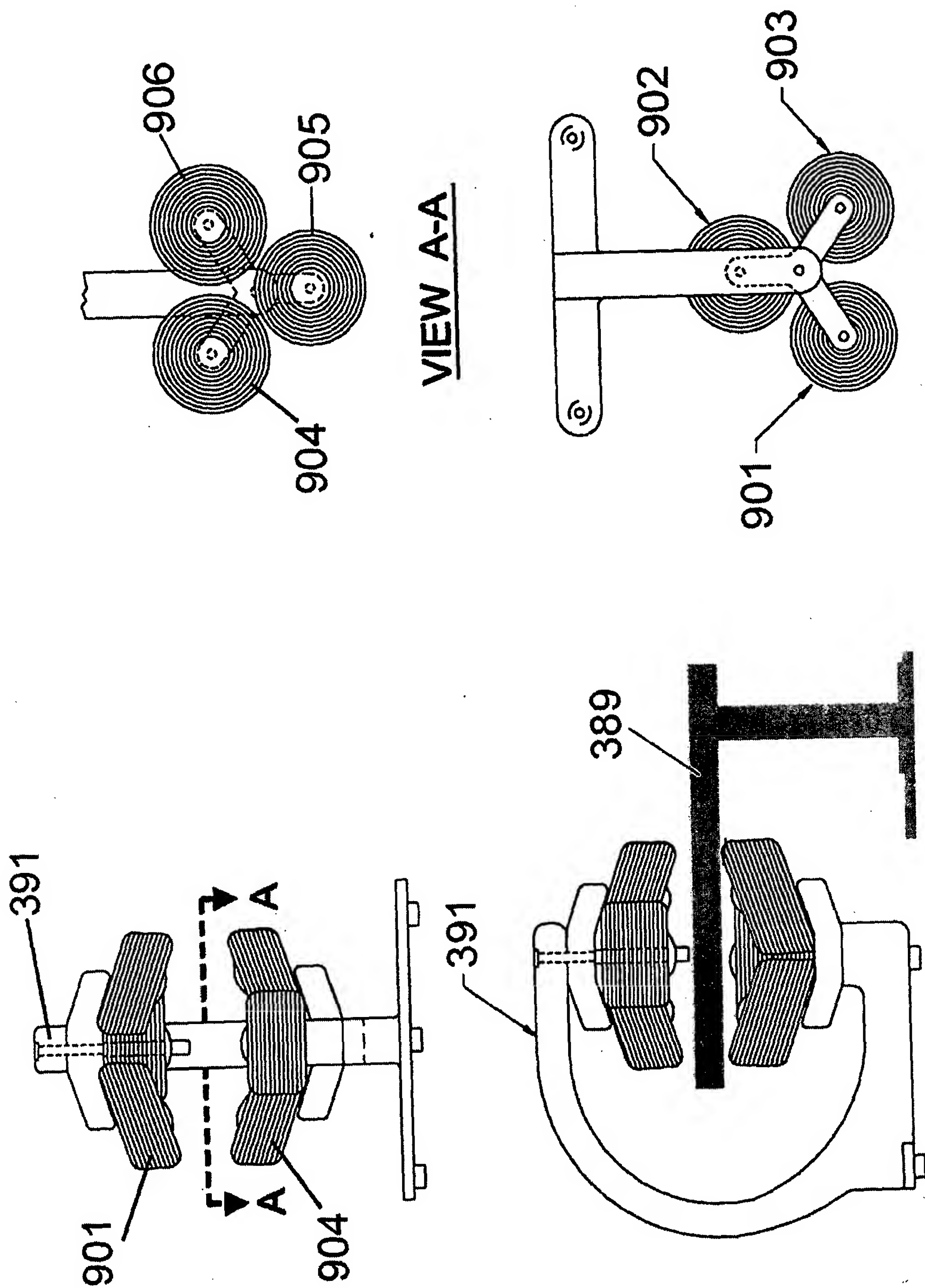


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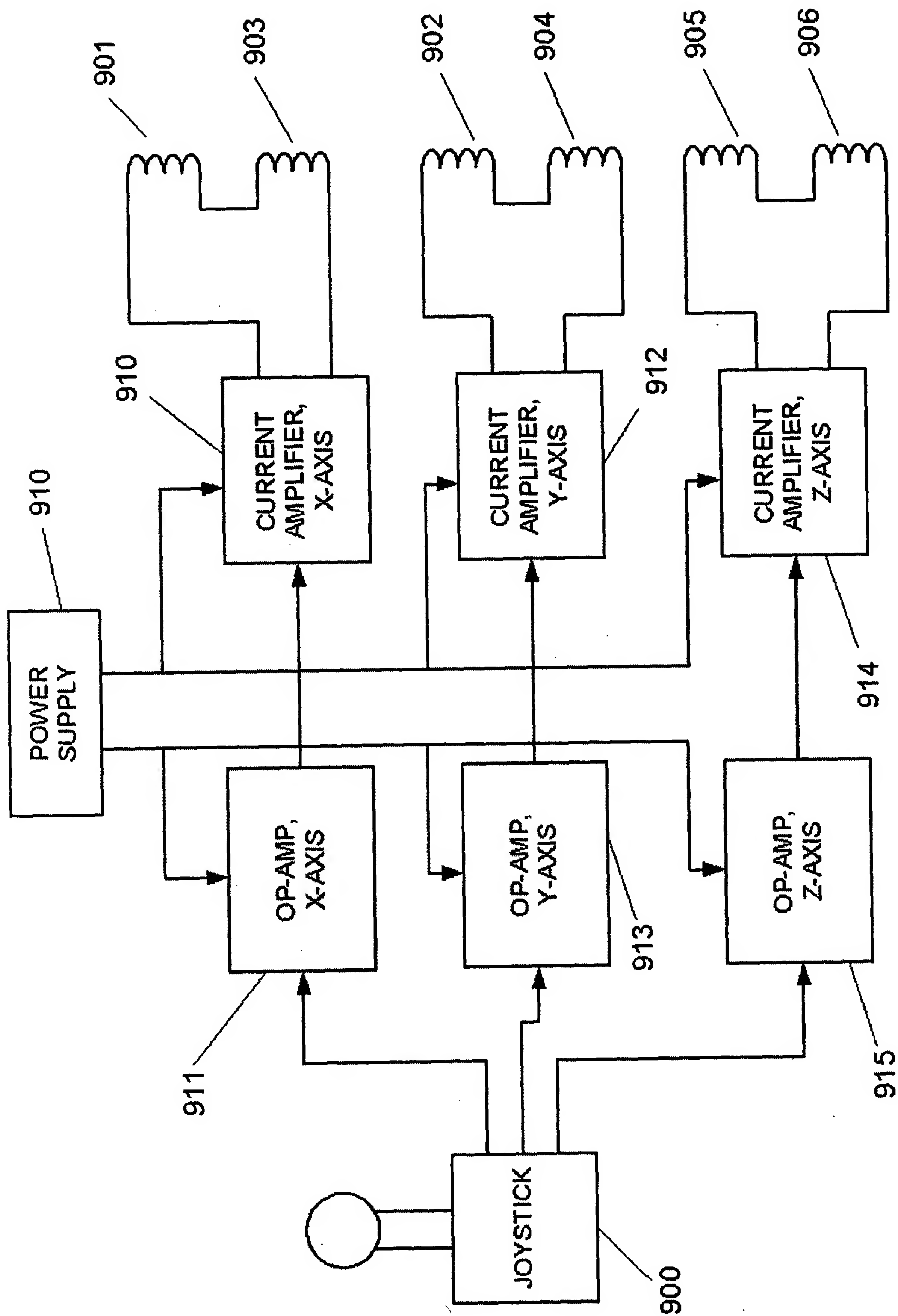


FIG. 13C

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} V_{ix} \\ V_{iy} \\ V_{iz} \end{bmatrix} \quad \begin{matrix} 921 & 922 & 923 \end{matrix}$$

Fig. 13D

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{32} & C_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix} \quad \begin{matrix} 921 & 925 & 926 \end{matrix}$$

Fig. 13E

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} R_{11} & R_{12} & R_{13} \\ R_{21} & R_{22} & R_{23} \\ R_{31} & R_{32} & R_{33} \end{bmatrix} \begin{bmatrix} I_1 \\ I_2 \\ I_3 \end{bmatrix} \quad \begin{matrix} 921 & 927 & 926 \end{matrix}$$

Fig. 13F

$$\begin{bmatrix} B_x \\ B_y \\ B_z \end{bmatrix} = \begin{bmatrix} R_{11} & R_{12} & R_{13} \\ R_{21} & R_{22} & R_{23} \\ R_{31} & R_{32} & R_{33} \end{bmatrix} \begin{bmatrix} C_{11} & C_{12} & C_{13} \\ C_{21} & C_{22} & C_{23} \\ C_{31} & C_{32} & C_{33} \end{bmatrix} \begin{bmatrix} V_{ix} \\ V_{iy} \\ V_{iz} \end{bmatrix} \quad \begin{matrix} 921 & 927 & 925 & 923 \end{matrix}$$

Fig. 13G

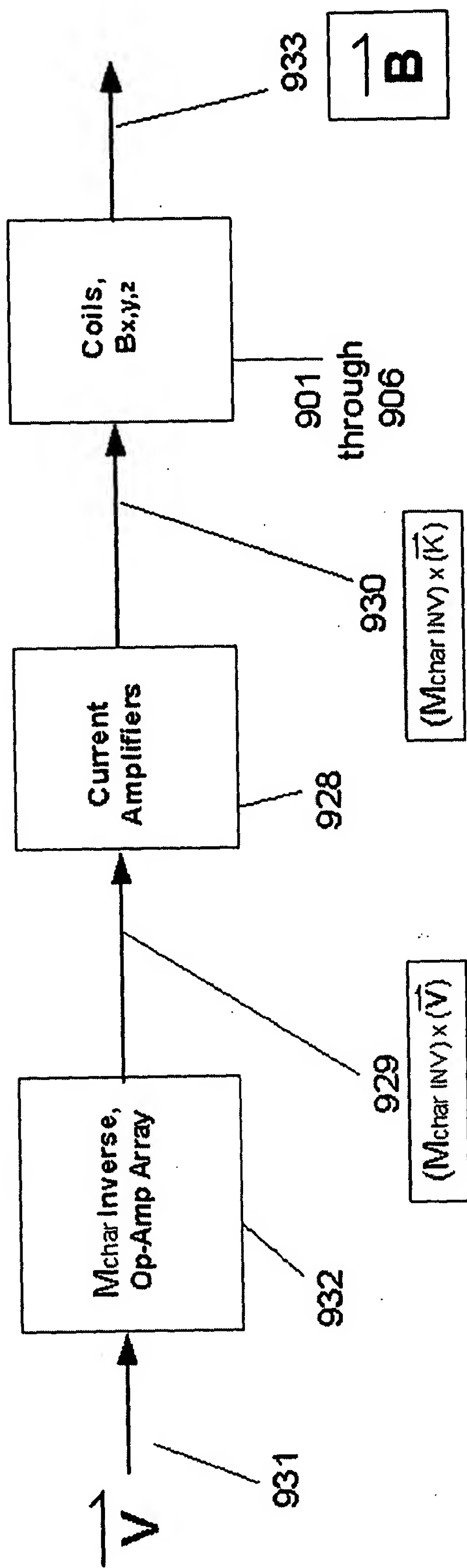


Fig. 13H

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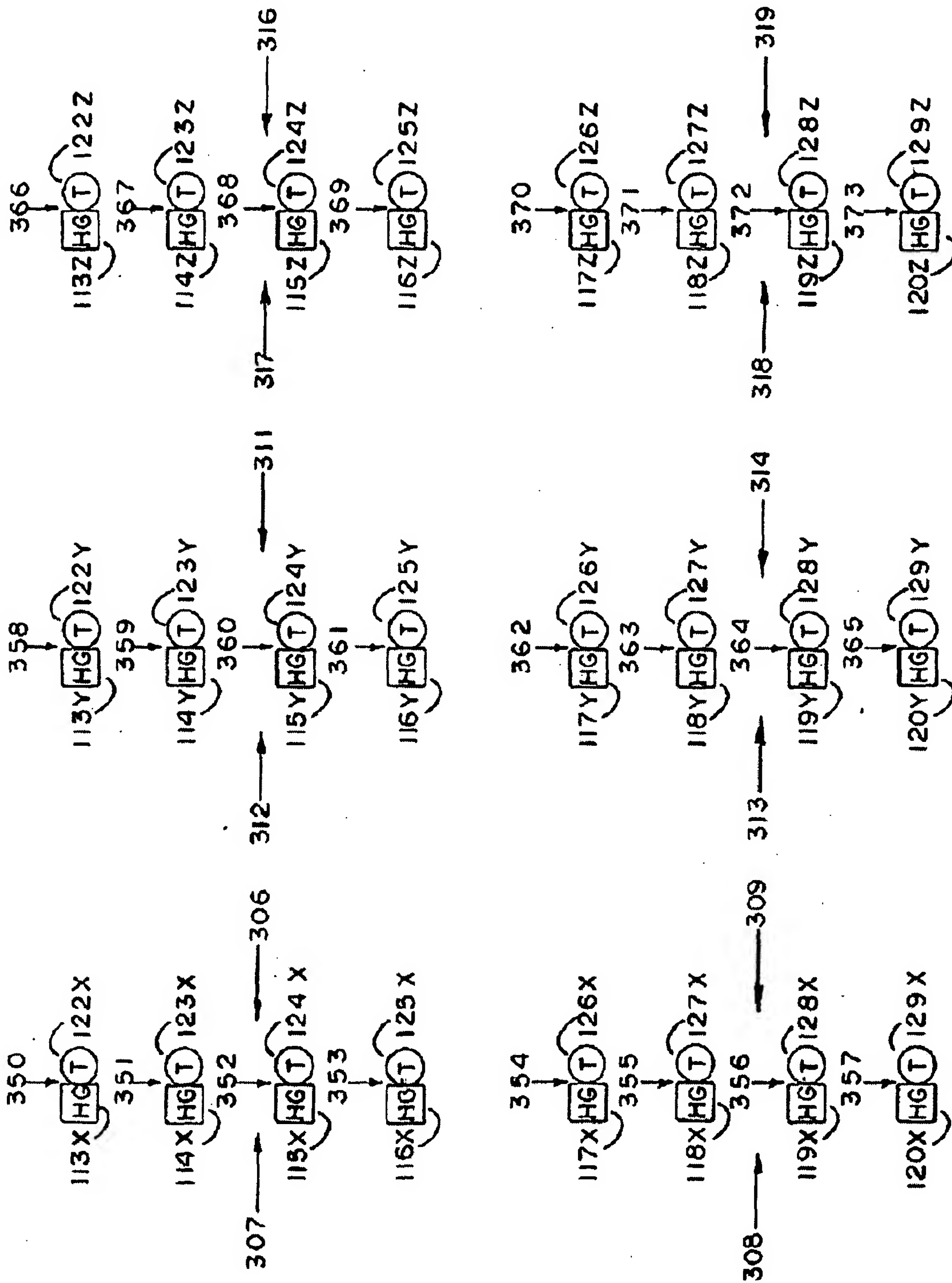


FIG. 14

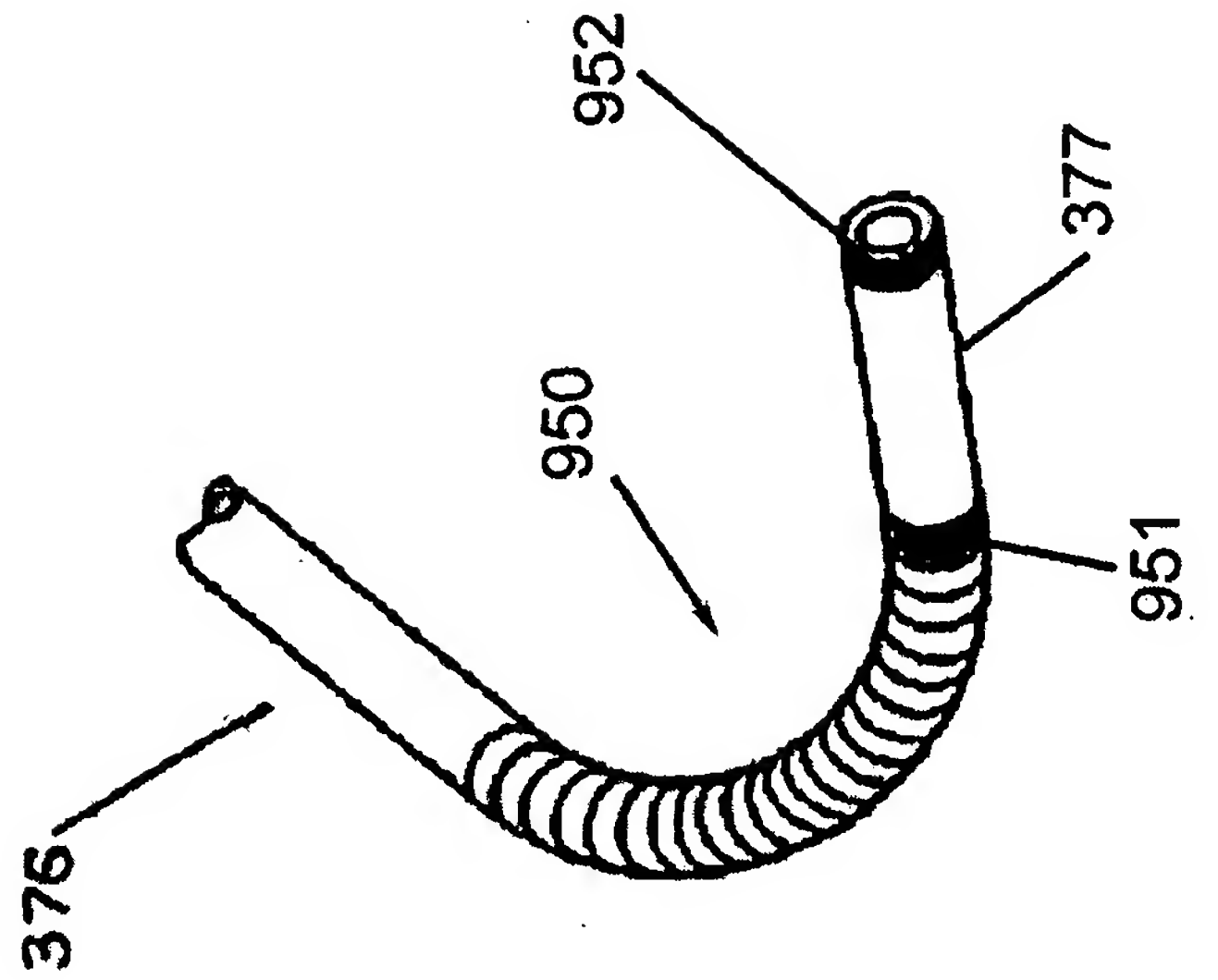


FIG. 15B

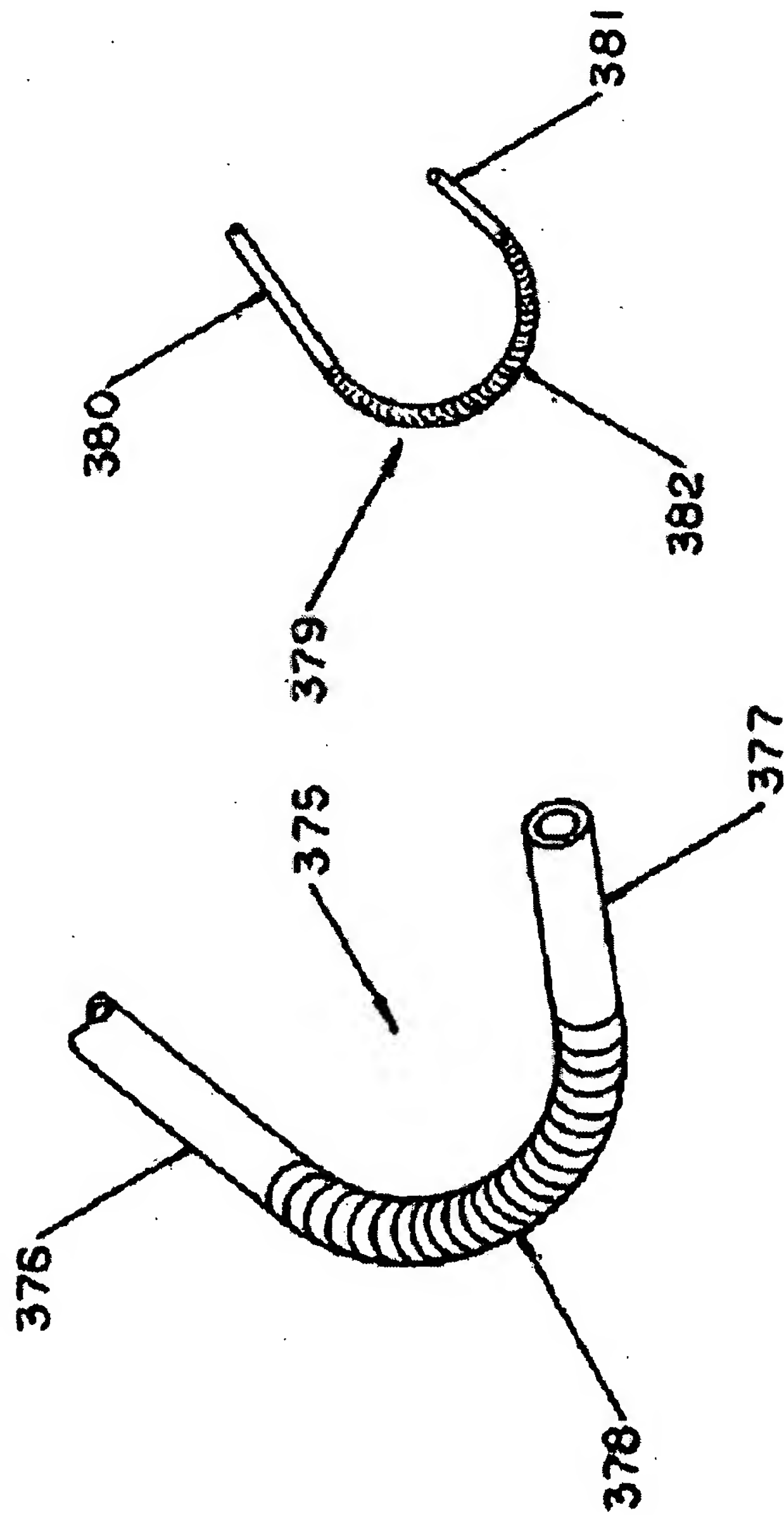


FIG. 15A

FIG. 15

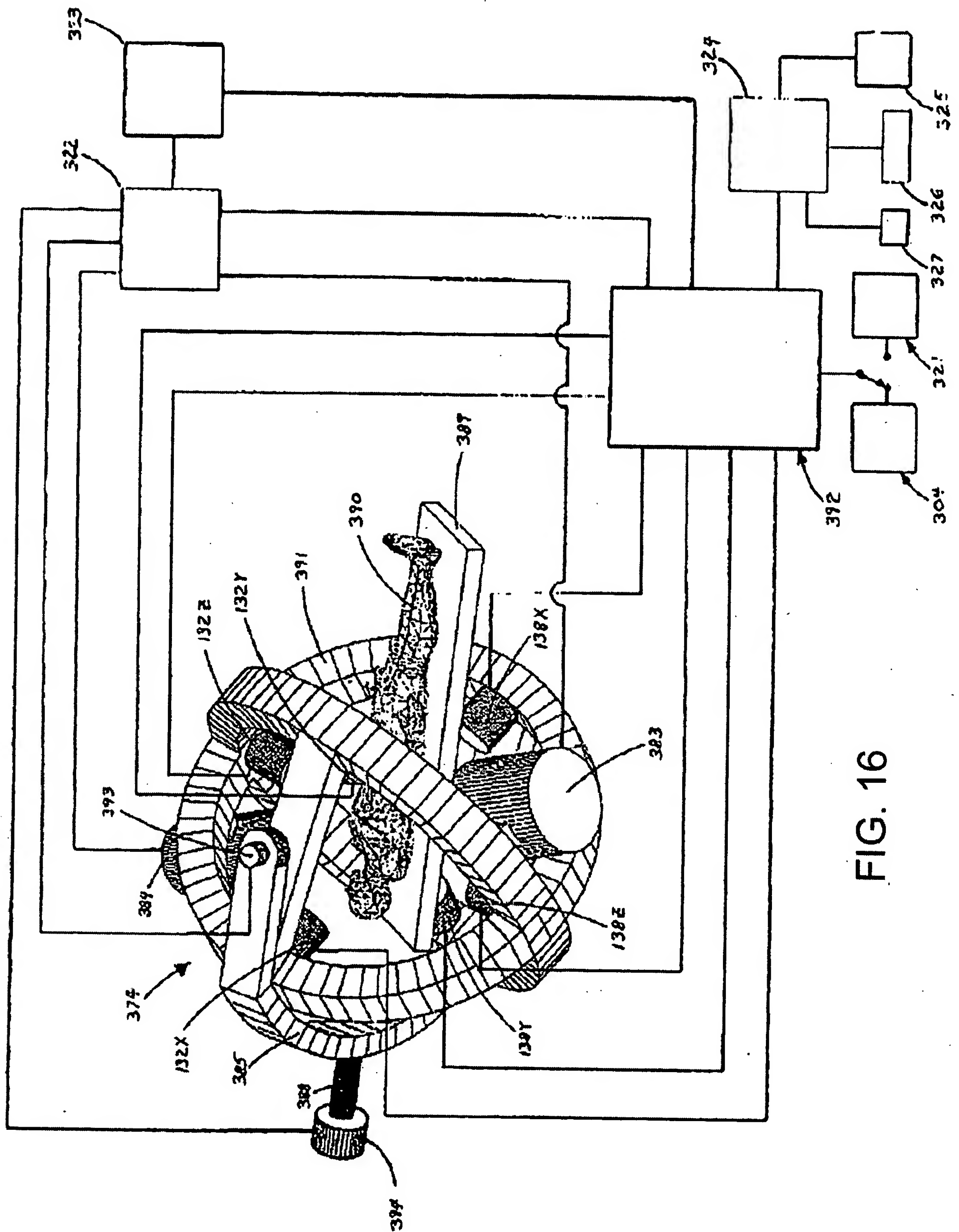
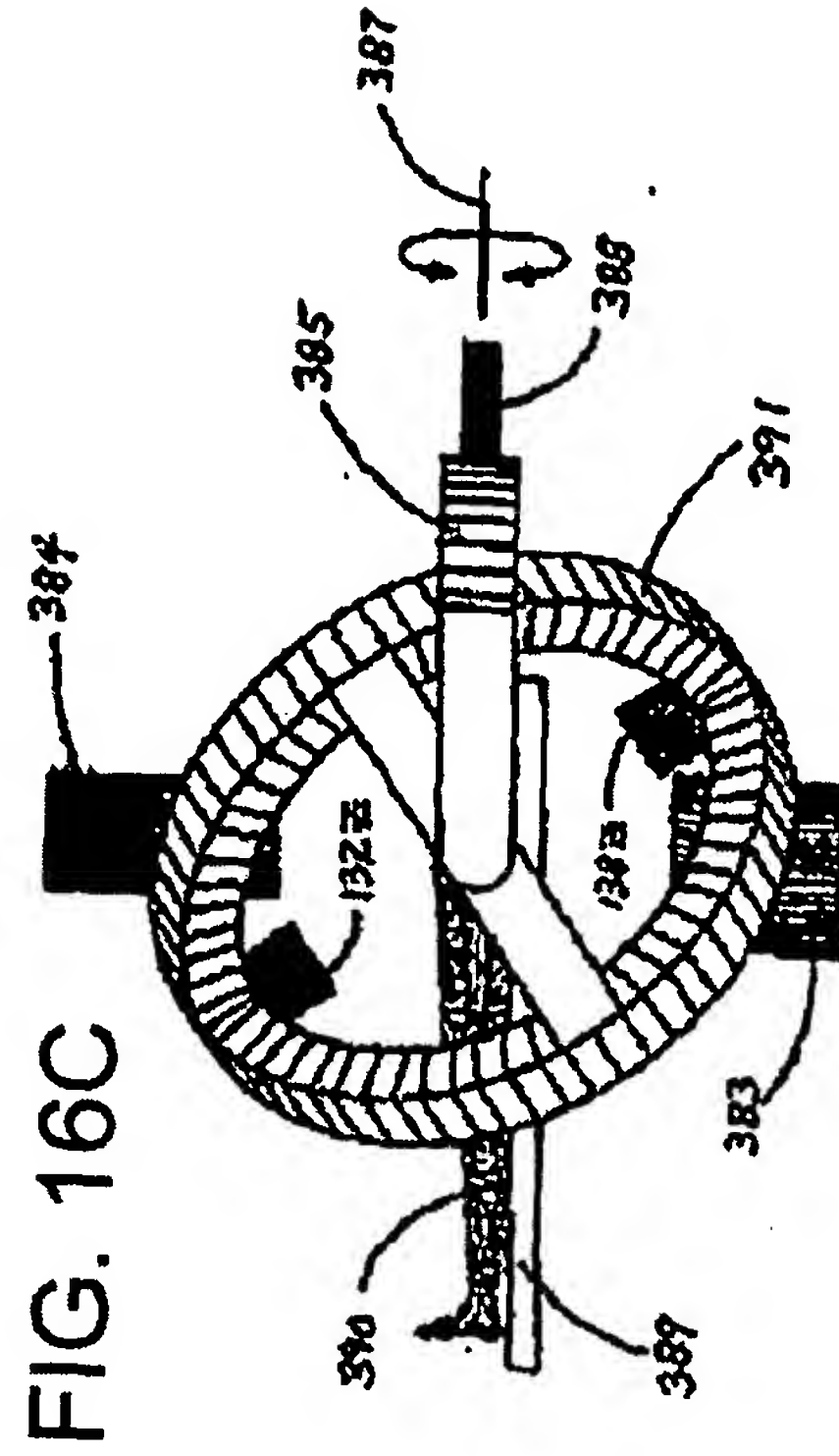
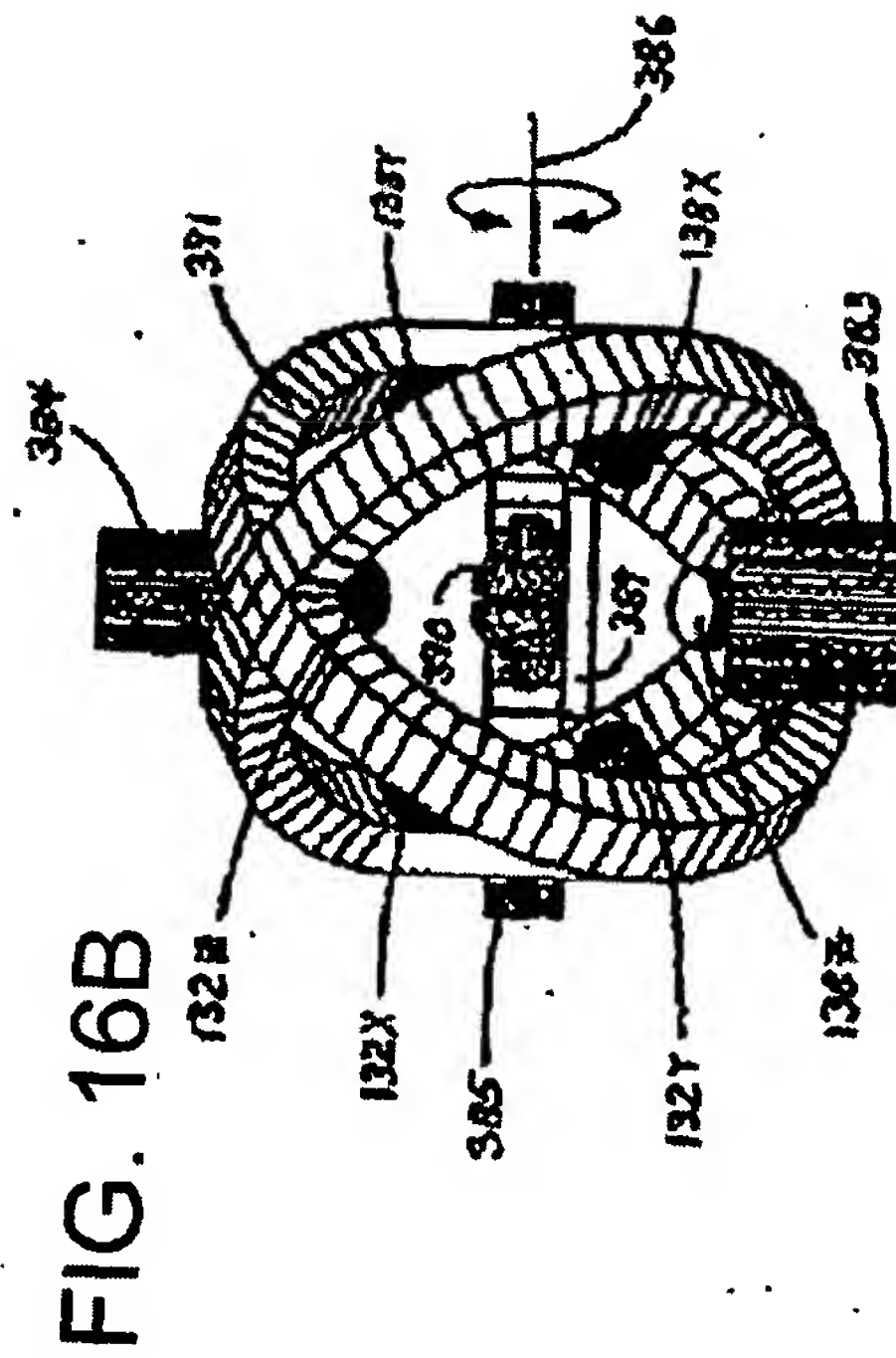
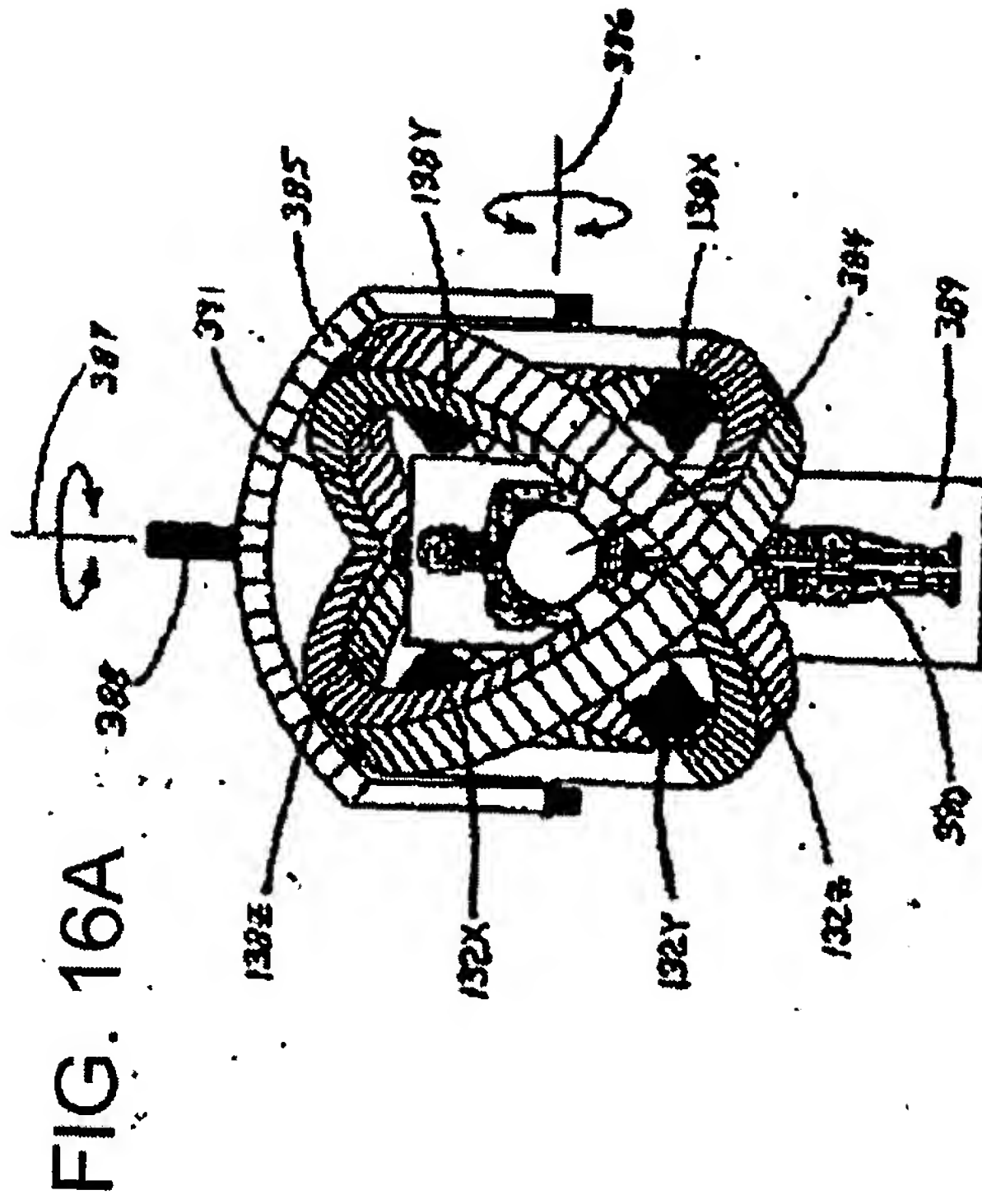


FIG. 16







**FIG. 17A**

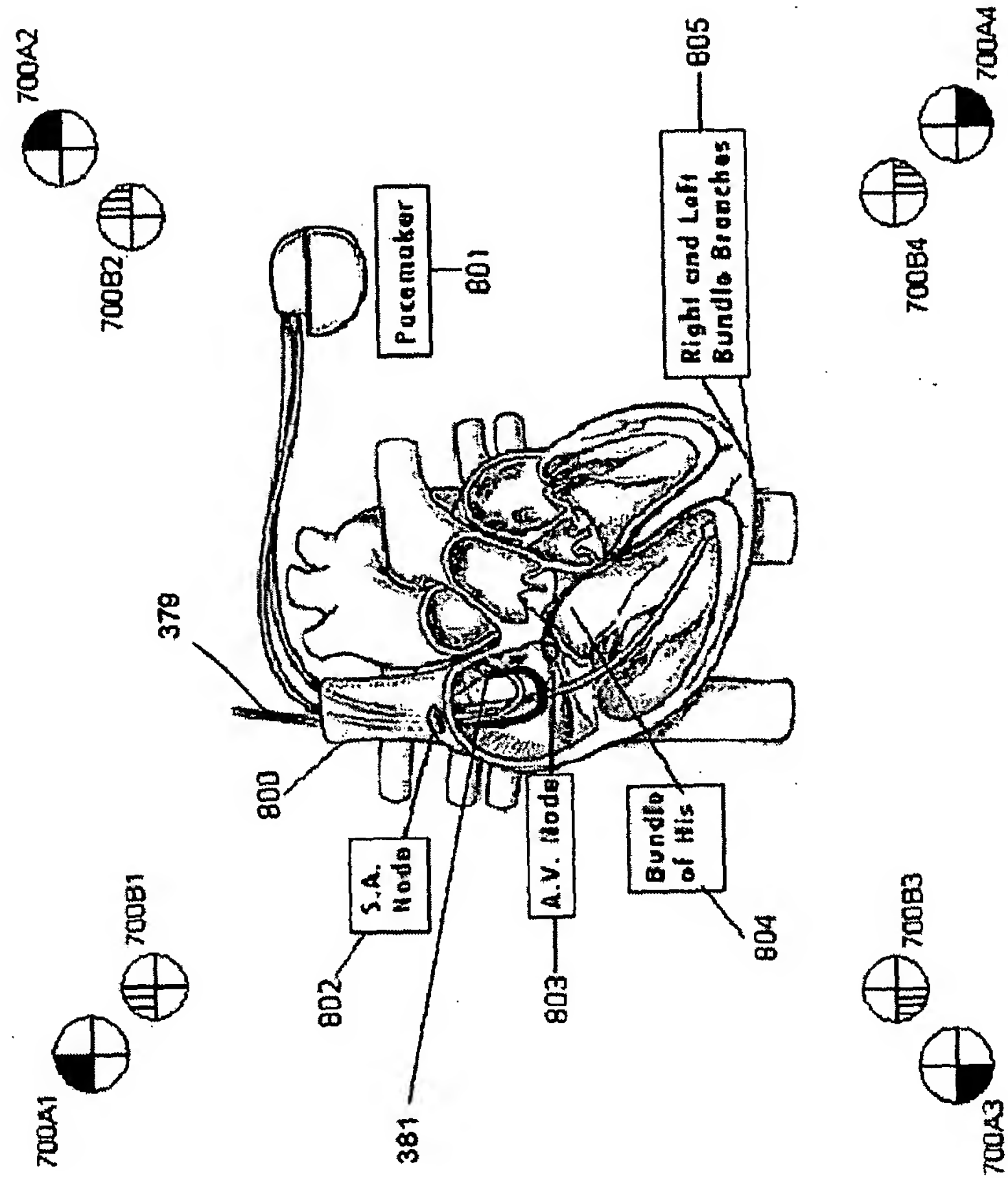


FIG. 17B

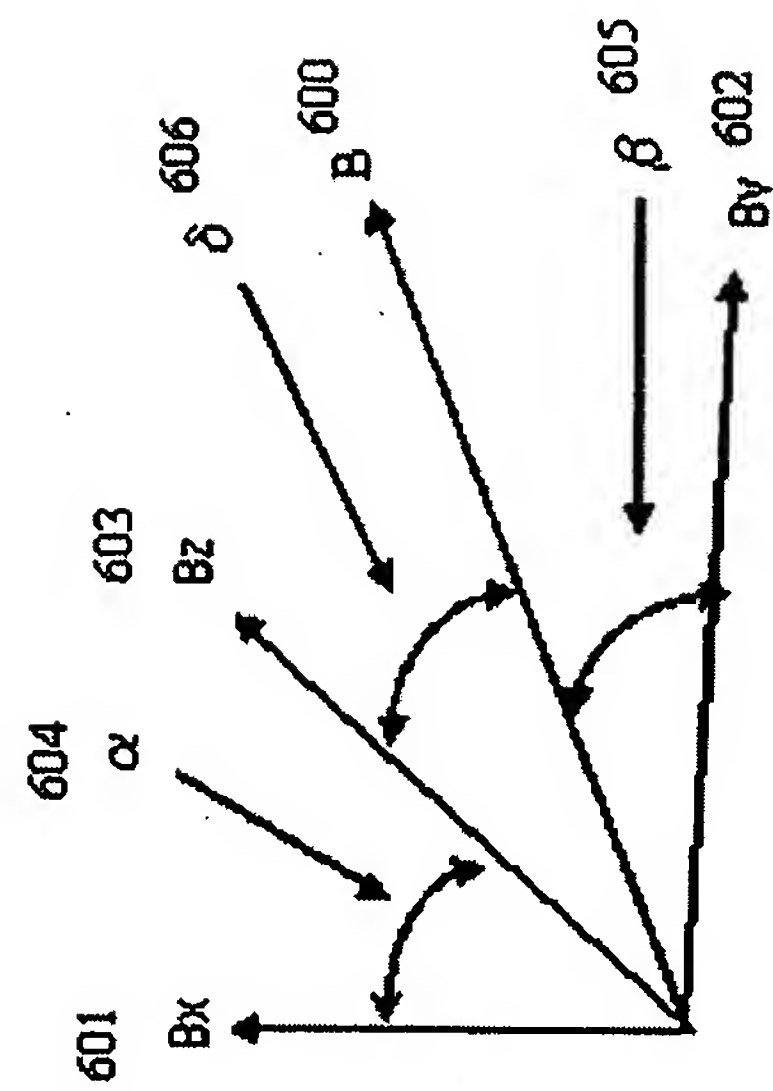


FIG. 18

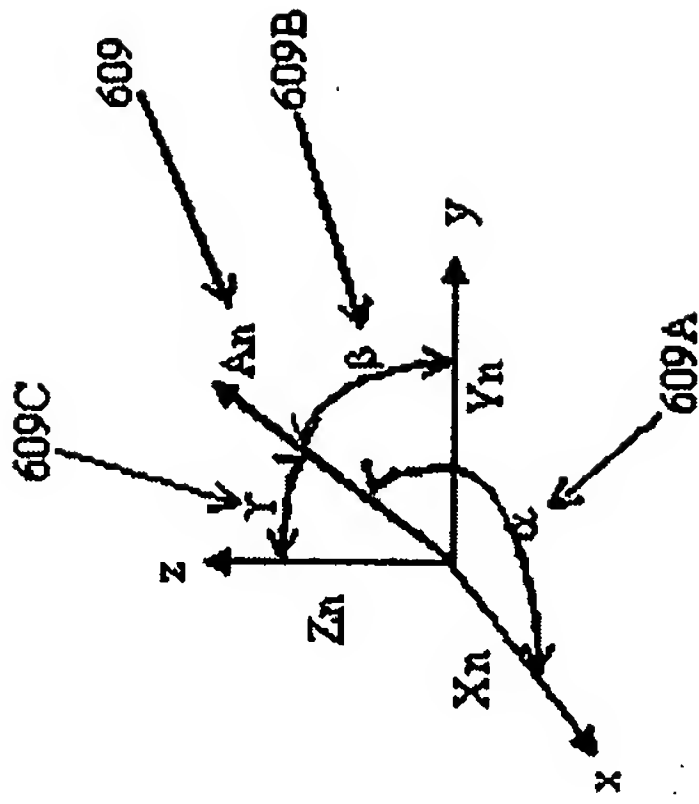


FIG. 18B

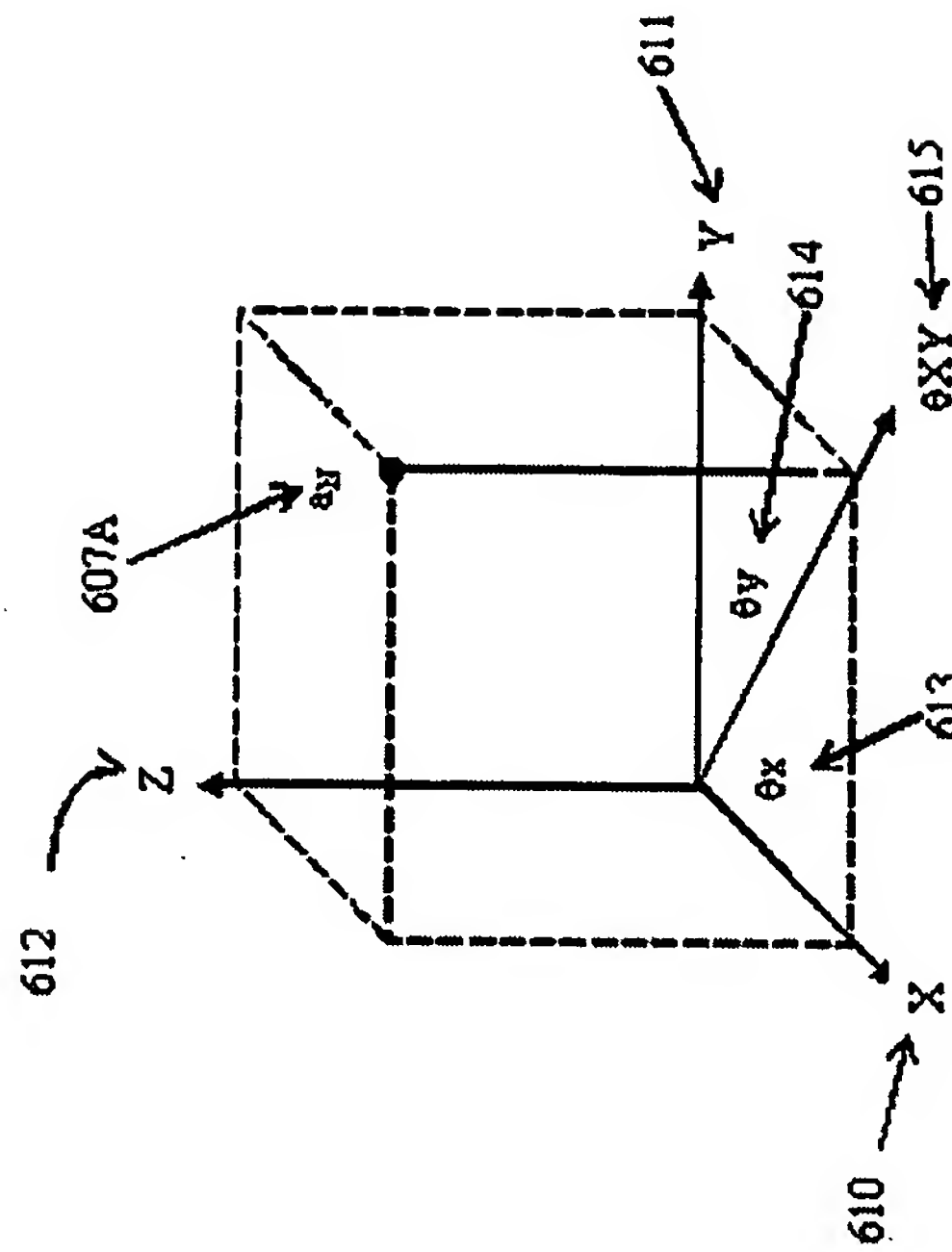


FIG. 18C

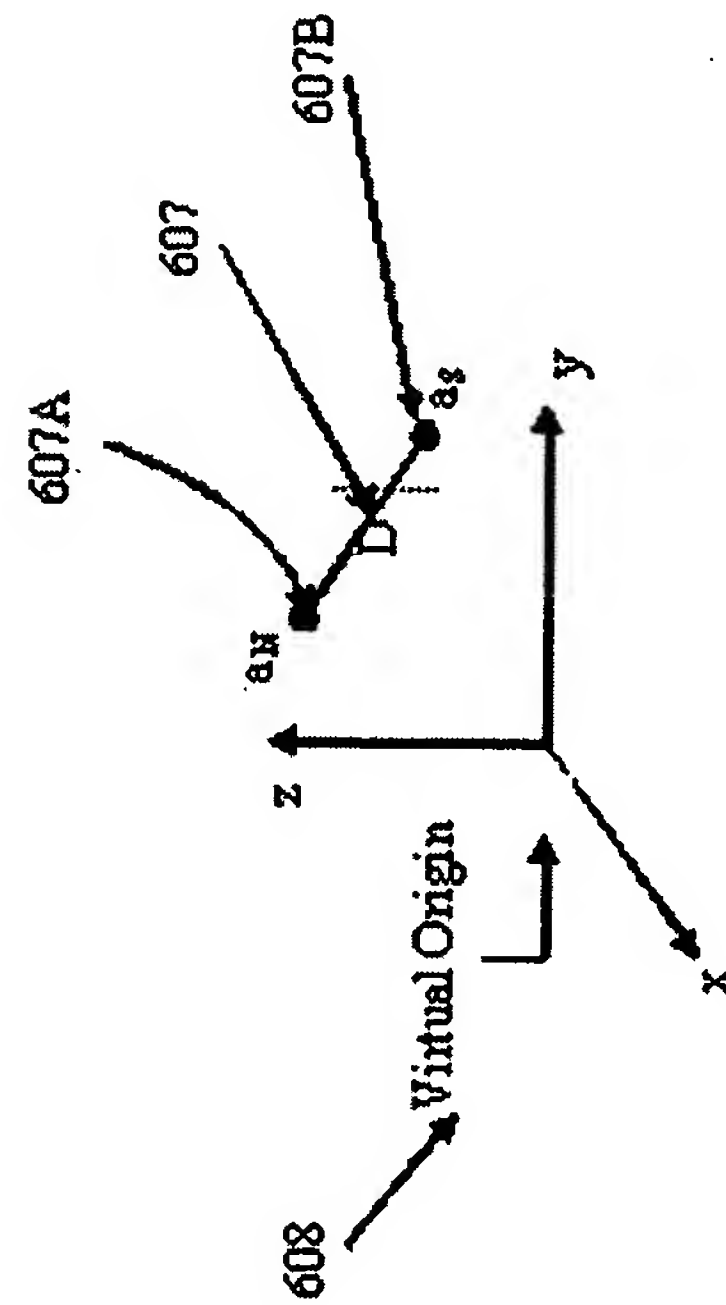


FIG. 18A

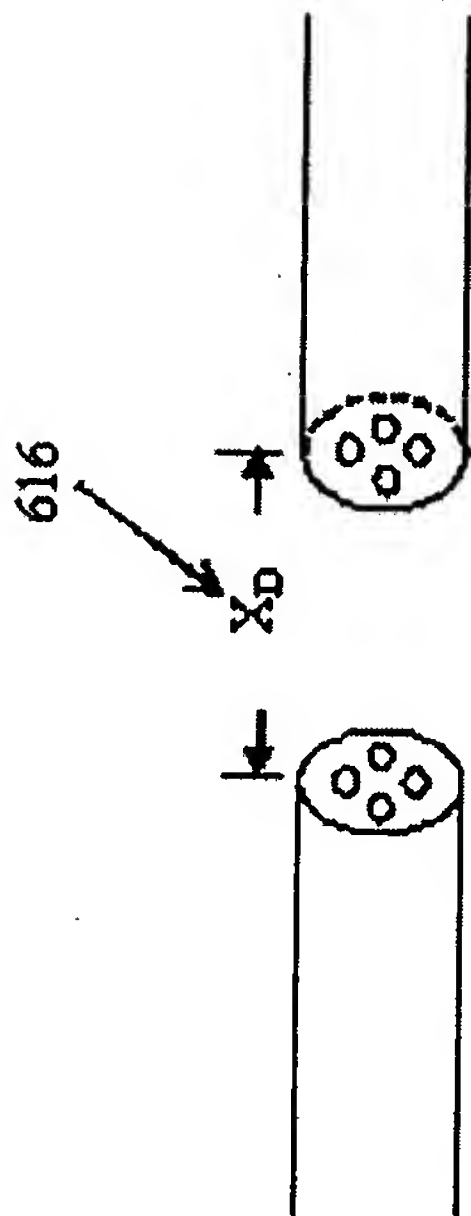


FIG. 19

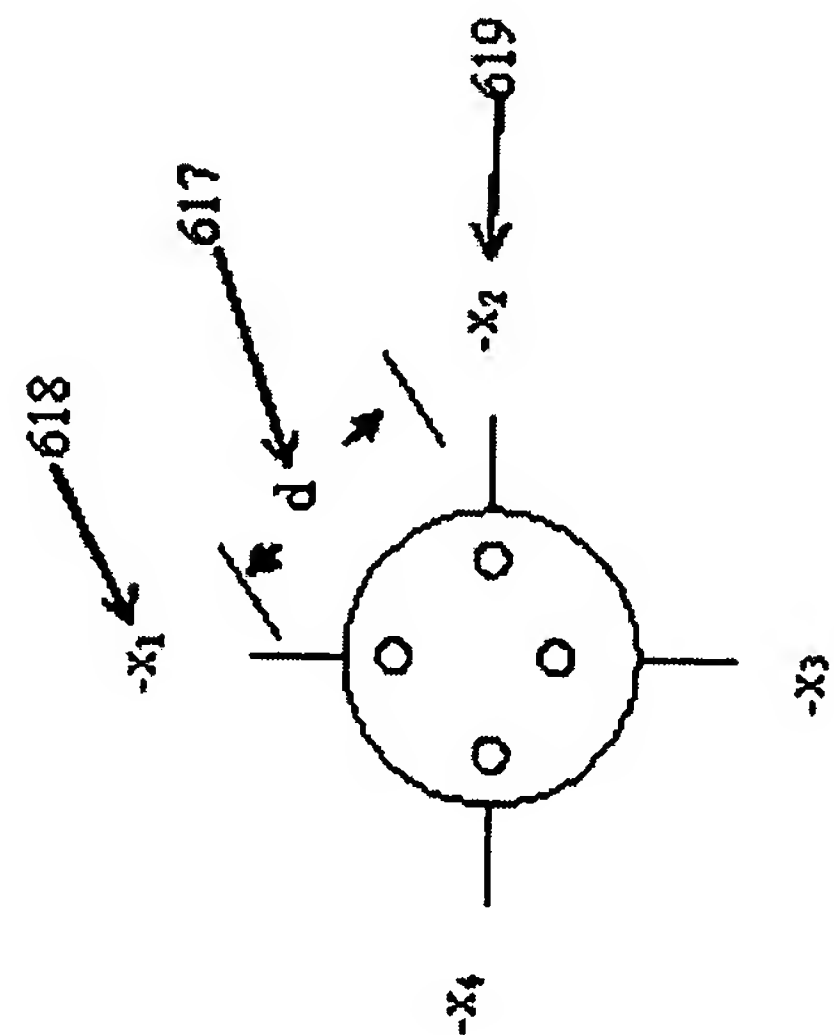


FIG. 19A

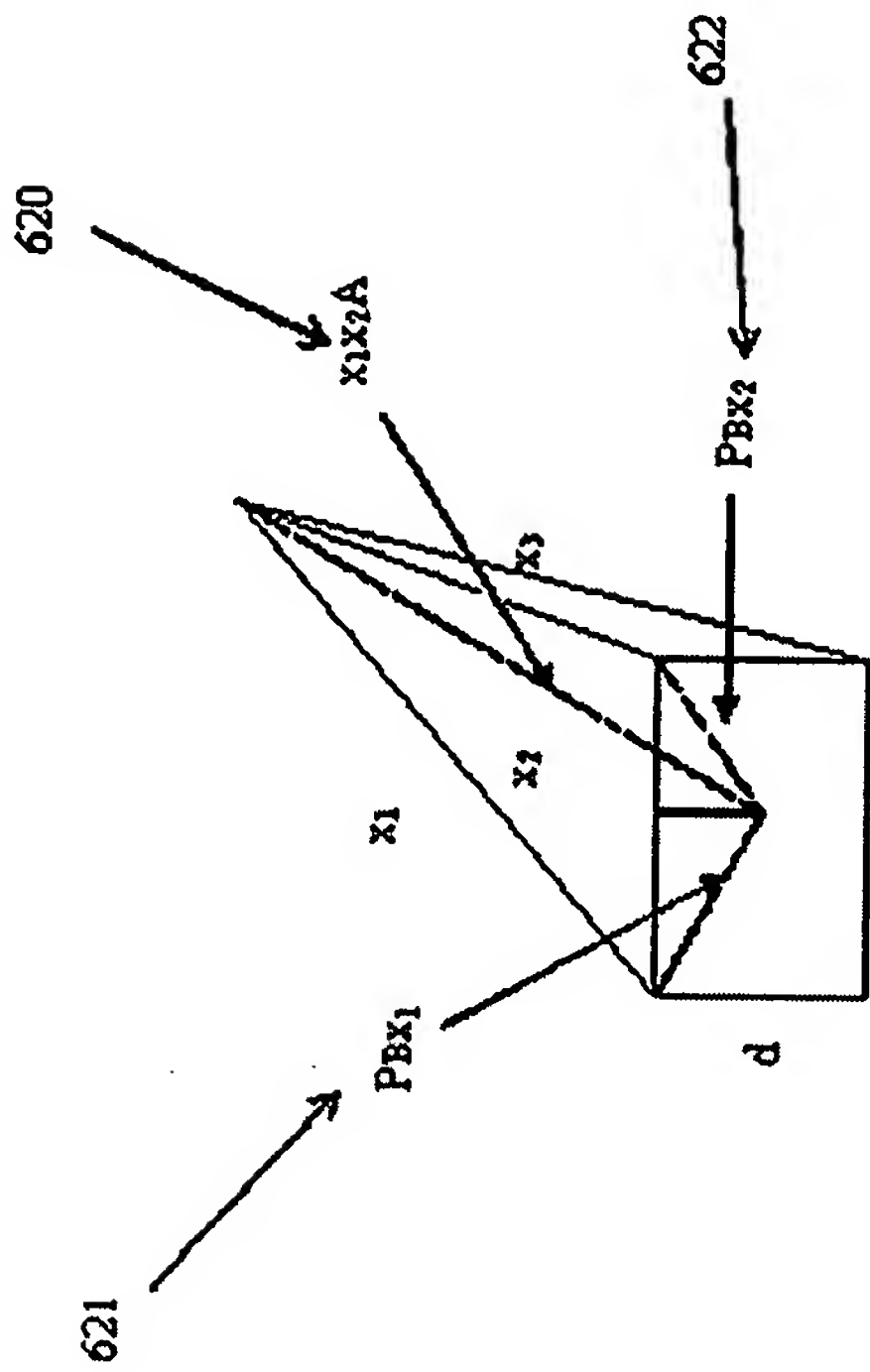


FIG. 20

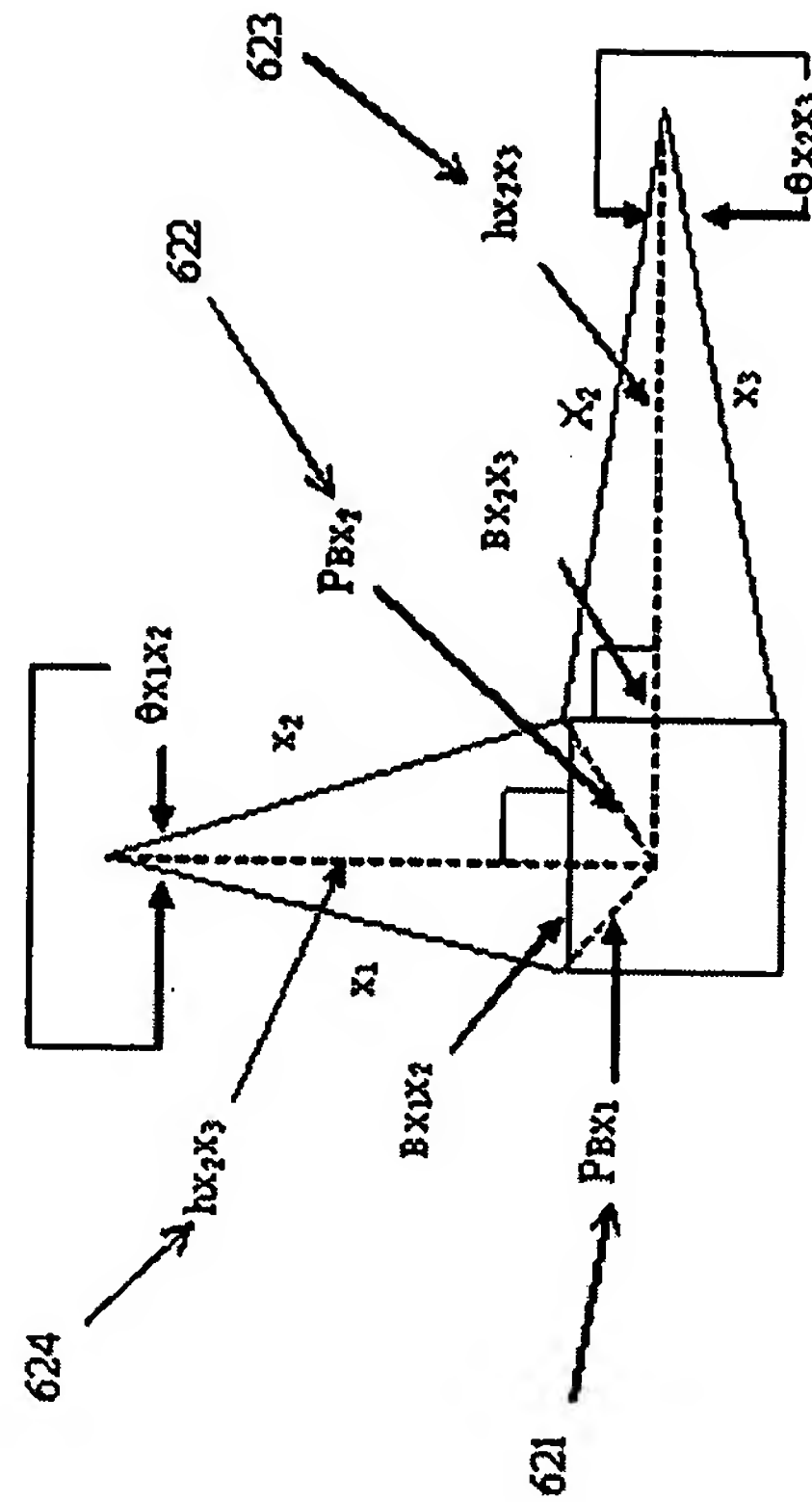


FIG. 20A

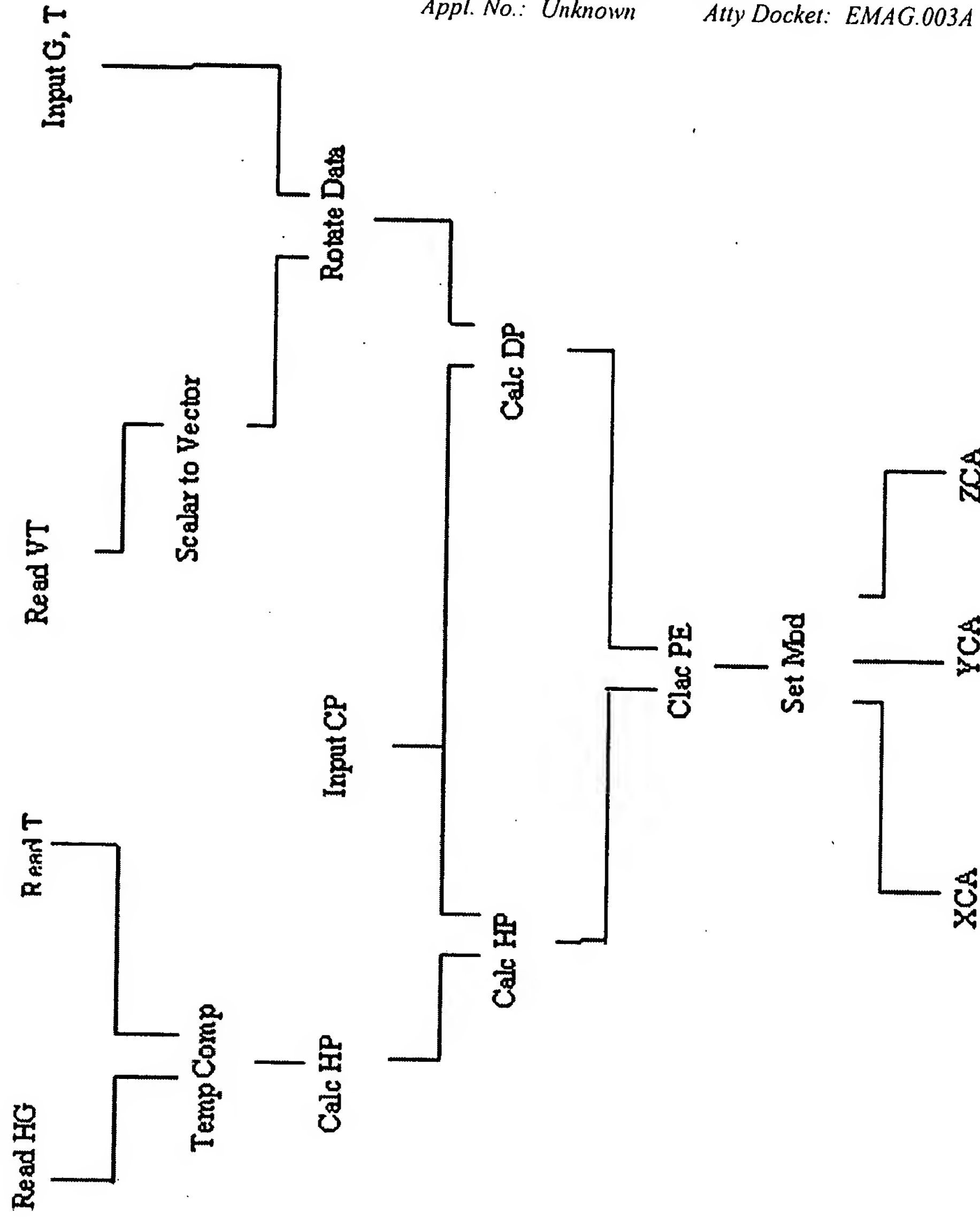


FIG. 23

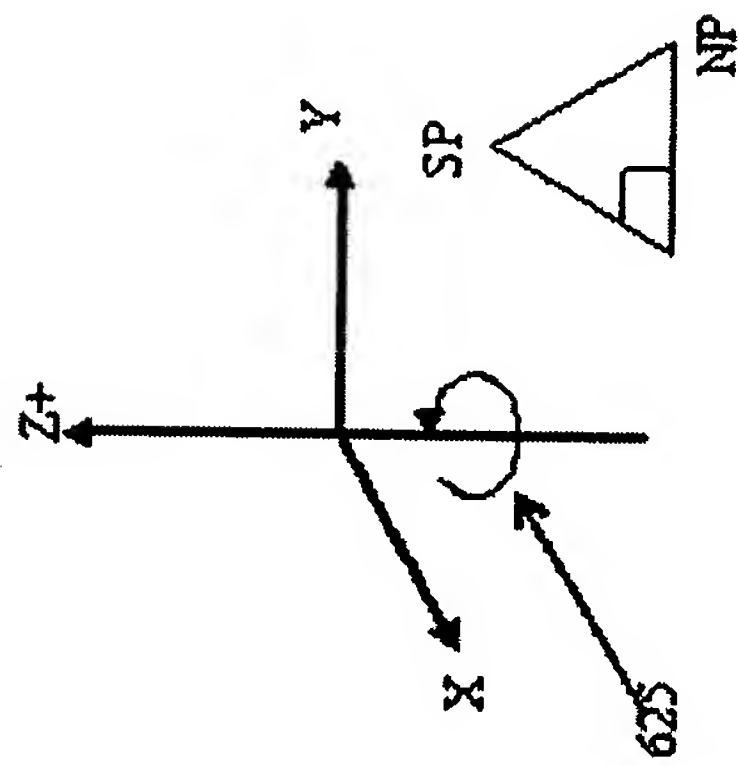


FIG. 21

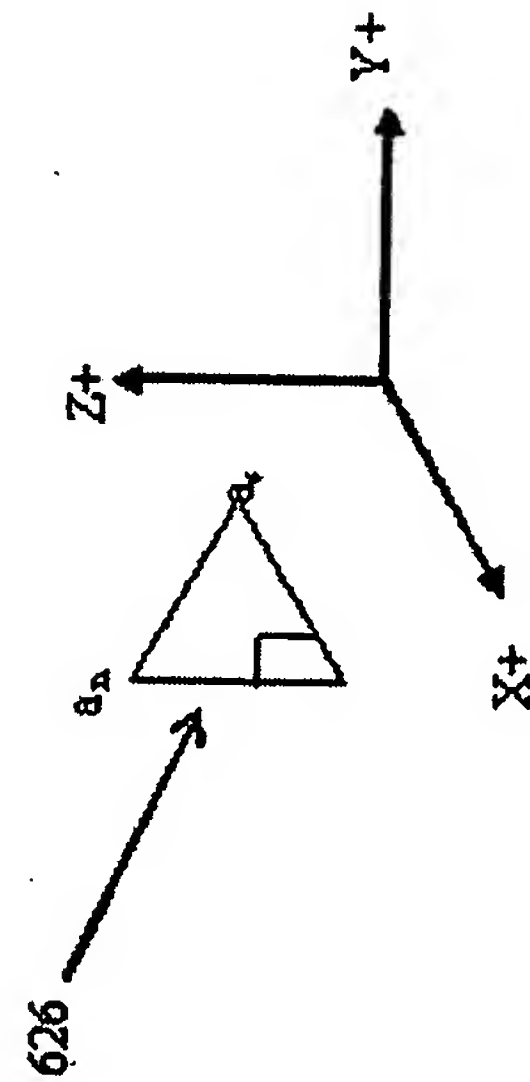


FIG. 22